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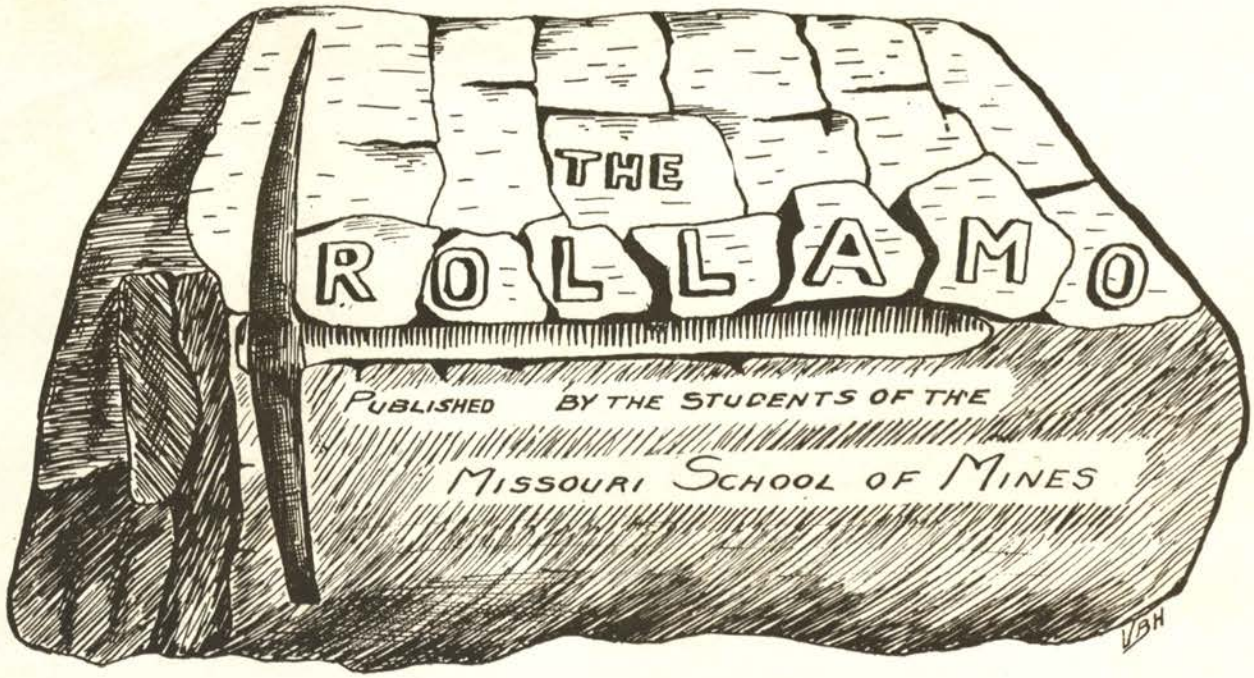
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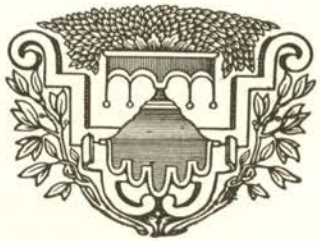
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To

DOCTOR GEO. E. LADD,

who for eight years has labored to place M. S. M.
among the best of her class, this book
is dedicated.





DR. GEO. E. LADD

DIRECTOR

MISSOURI SCHOOL OF MINES AND METALLURGY

ROLLA, MISSOURI

CALENDAR

1906

June 11, Monday, 10 a. m.	Annual Commencement.
June 1 to 7 inclusive	Final Examinations.
September 15 and 17, Saturday and Monday, 10 a. m.	Entrance Examinations.
September 18, Tuesday	**First Term** Begins.
November 29, Thursday	Thanksgiving Holiday.
December 21, Friday 12 m.	Christmas Recess Begins.

1907

January 2, Wednesday	Second Term Begins.
February 22, Friday	Holiday.
March 18, Monday	Third Term Begins.
June 7, Friday	Annual Meeting of Executive Committee.
June 8, Saturday	Commencement.
May 31 to June 6 inclusive	Final Examinations.

BOARD OF CURATORS

To January 1, 1907

Gardiner Lathrop.....Kansas City
B. G. Thurman.....Lamar
A. McVey.....Chillicothe

To January 1, 1909

D. R. Francis.....St. Louis
H. C. Wells.....Platte City
C. B. Faris.....Caruthersville

To January 1, 1911

Walter Williams.....Columbia
*D. A. McMillan.....Mexico
B. H. Bonfoey.....Unionville
†J. C. Parrish.....Vandalia

OFFICERS OF THE BOARD

Gardiner Lathrop.....President
C. B. Faris.....Vice-President
J. G. Babb.....Secretary
R. B. Price.....Treasurer

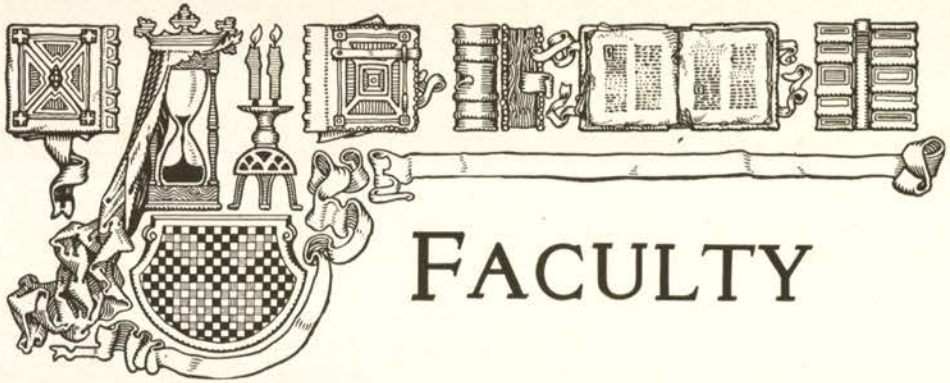
*Died, March fourth, 1906.
†Appointed, April 10th, 1906.

EXECUTIVE COMMITTEE
OF THE
SCHOOL OF MINES AND METALLURGY

B. G. Thurman.....Lamar
C. B. Faris.....Caruthersville
J. C. Parrish.....Vandalia

OFFICERS OF THE COMMITTEE

B. G. Thurman.....Chairman
Charles L. Woods.....Secretary
Henry Wood.....Treasurer



FACULTY

RICHARD HENRY JESSE, LL. D.
President of the University

GEORGE EDGAR LADD, PH. D.
Director and Professor of Geology and Mining
A. B. 1887, A. M. 1888, Ph. D. 1894
Harvard University



GEORGE REGINALD DEAN, C. E.

Professor of Mathematics

B. S. 1890, C. E. 1891, School of Mines

AUSTIN LEE McRAE, S. D.

Professor of Physics

B. S. University of Georgia, 1881

S. D. Harvard University, 1886



VICTOR HUGO GOTTSCHALK, M. S.

Professor of Chemistry

B. S. 1898, M. S. 1900, School of Mines

ELMO GOLIGHTLY HARRIS, C. E.

Professor of Civil Engineering

C. E. 1882, University of Virginia



GEORGE ARTHUR PACKARD, S. B.

Professor of Metallurgy

S. B. 1890, Massachusetts Institute of Technology

JAMES CLARK DRAPER, E. M.

Professor of Mining Engineering

B. S. 1901, E. M. 1903, School of Mines



LEON STACY GRISWOLD, A. B.

Assistant Professor of Geology and Mineralogy

A. B. 1889, Harvard

JOSEPH HENRY BOWEN

Assistant Professor of Shopwork and Drawing

Graduate Miller School, Va.



LEON ELLIS GARRETT, B. S.

Assistant Professor of Mathematics

B. S. 1901, School of Mines

PAUL JULIUS WILKINS, B. S.

Instructor in Modern Languages

B. S. 1869, Michigan A. & M. College



JOHN BENNETT SCOTT

Instructor in English and Secretary

ROBERT CLAIR THOMPSON, M. S.

Assistant Professor of Chemistry

B. S. 1900, Westminster College, Pa.

M. S. 1904, School of Mines



ELWYN LORENZO CLARKE, B. S.

Instructor in Civil Engineering

B. S. in C. E. 1902, University of Illinois

EDWARD STAPLES SMITH, M. E.

Instructor in Shopwork and Drawing

M. E. Brown University



JESSICA HELLER

Librarian

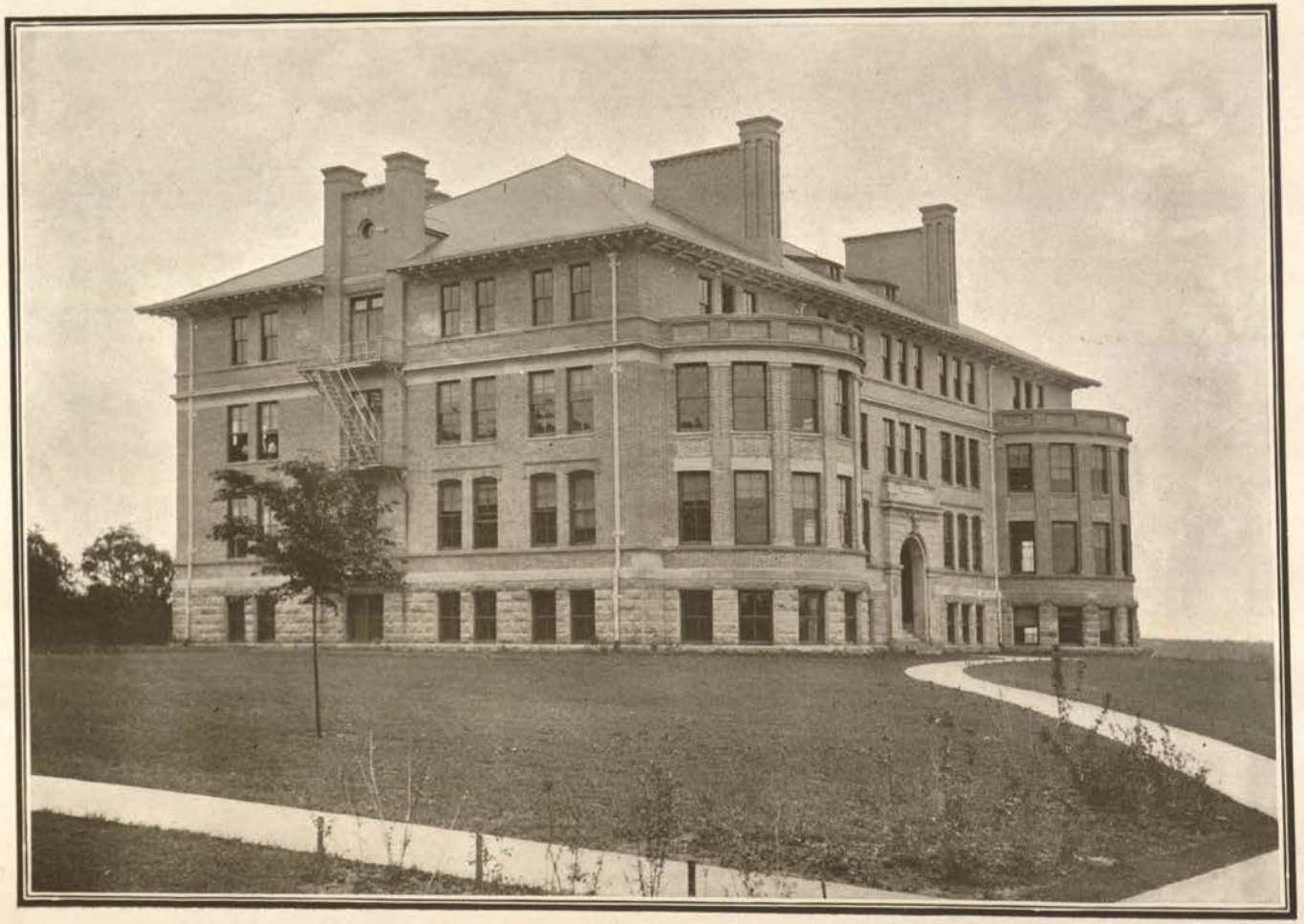
In Memoriam

WILLIAM WARREN GARRETT was professor of Metallurgy 1904-1906. He resigned his position with the school and accepted one in Mexico, which he held but a short time when attacked by sickness. Partially recovering from this, he started for his home in Boston and died in San Antonio, Texas.

He was beloved of his pupils and left behind him a deep and lasting impression of his sterling worth. All who knew him, deeply mourn his loss and unite in paying tribute to his memory.

In Memoriam

In his Freshman year, at the very threshold of a promising life, ALFRED ROBERT KILLIAN, loyal classman and true friend, was taken from us. Our mourning is toned with sympathy for his people.



NORWOOD HALL

HISTORICAL SKETCH OF MISSOURI SCHOOL OF MINES

Although the School of Mines and Metallurgy is only thirty-five years old, the seed which brought it into being was sown at the foundation of our republic. That the framers of our government believed in education is amply proved by the fact that they made it one of the corner-stones of the structure.

"Religion, morality and knowledge being necessary to good government and the happiness of mankind, schools and the means of education shall forever be encouraged." (Articles of Confederation, 1787.)

"Religion, morality and knowledge being necessary to good government, and the happiness of mankind, schools and the means of education shall be encouraged and provided for from the public lands of the United States in said Territory, in such manner as congress may deem expedient." (Act organizing Territory of Missouri, 1812.)

"The General Assembly shall take measures for the improvement of such lands as have been, or may hereafter be granted by the United States to this State for the support of a seminary of learning, and the funds accruing from such lands by rent or lease, or in any other manner, or which may be obtained from any other source for the purposes aforesaid, shall be and remain a permanent fund to support a university for the promotion of literature, and of the arts and sciences; and it shall be the duty of the General Assembly as soon as may be to provide effectual means for the improvement of such lands and for the improvement and permanent security of the funds and endowment of such institution. (State Constitution, 1820.)

These wise provisions bore fruit in the establishment of the State University at Columbia in 1840. This institution, however, owing to the lack of proper financial aid had to work and struggle against poverty for many years.

This governmental potentiality for nearly a century was changed into kinetic vitality by Act of Congress in 1862. Congress passed an act known as the Land Grant Act, donating to the several States which may provide colleges for the benefit of agriculture and the

mechanic arts, thirty thousand acres of public land, for each senator and representative in Congress. The General Assembly of Missouri formally accepted the Government Land Grant, February 17th 1863.

From February 1863 to March 1870, a period of seven years, the question of the proper distribution of this government fund was debated—whether it should be concentrated at the University at Columbia or divided among several institutions in different sections of the State. The struggle was protracted and bitter in the General Assembly, in the press and in the forum.

Finally in 1870 a compromise between the conflicting interests was effected whereby three-fourths of the fund was given for an agricultural and mechanical college to be located at Columbia in connection with the State University, and one-fourth was given for the establishment of a school of Mines and Metallurgy to "be located in the mineral district of southeast Missouri."

"There is hereby established the agricultural and mechanical college and a school of Mines and Metallurgy, provided for by the grant of the Congress of the United States as a distinct Department of the University of the State of Missouri."

"The leading objects of such Colleges shall be to teach such branches as are related to agriculture and the mechanic arts and mining, including military tactics and without excluding scientific and classical studies, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life." (Laws 1870, page 25.)

In consideration of the location of the agricultural and mechanical college at Columbia, Boone County was required to raise $90,000.00 for the benefit of the institution.

The location of the School of Mines and Metallurgy was to be fixed "in that County in the mineral section of southeast Missouri which shall give the greatest available amount in money and lands."

"In order to raise the amount of money and to purchase the quantity of land specified in this Act, voluntary individual subscriptions may be made and received by the Board of Curators and the corporate authorities of any city or town; and the County Courts of any County in the district mentioned are hereby authorized and empowered respectively to issue bonds of such city, town or county in such sum as may be agreed upon, etc."

Boone County paid the amount demanded by the General Assembly as follows: $30,000.00 in cash, and 640 acres of land valued at $60,000.00.

Only two counties, Iron and Phelps bid for the location of the School of Mines and Metallurgy.

The Bid of Iron County was as follows:

County Bonds	$ 83,500.00
5,000 acres of land at $2.00 per acre	10,000.00
20 acres of land at $1,000.00 per acre	20,000.00
Total	$113,500.00

The Bid of Phelps County was as follows:

County Bonds	$ 75,000.00
7709 acres of land at $5.00 per acre	38,545.00
40 acres of land at $100.00 per acre	4,000.00
130 acres of land at $100.00 per acre	13,000.00
Total	$130,545.00

The bid of Phelps County being the highest, it was duly accepted by the committee of the Board of Curators appointed for that purpose, December 8th, 1870.

A. J. CONANT, Chairman.
B. F. NORTHCUTT.
O. S. REED.
W. W. ORRICK.
JAMES S. ROLLINS.
F. T. RUSSELL, Secretary.

The County bonds were properly executed and warranty deeds to the land conveyed to the Board of Curators, and the School of Mines and Metallurgy was formally located at Rolla, the County seat of Phelps County.

Later the constitutionality of the bonds issued by the County Court was contested and the Supreme Court of the State declared that the County Court had exceeded its authority and that the bonds were void. The full bid of the County was therefore never paid. The amount actually paid is as follows:*

7709 acres of land	$38,545.00
40 acres of land	4,000.00
130 acres of land	13,000.00
City of Rolla, cash	1,200.00
City of Rolla, park	1,000.00
Phelps County, cash	18,600.00
Total	$76,345.00

The original site selected for the school was Fort Wyman, just southwest of the city limits, but in order to put the school in operation as early as possible, the City of Rolla sold its new high school building which had just been completed at a cost of $35,000.00 to the Board of Curators for $25,000.00, thus making an additional contribution of $10,000.00. The fact, however, that the total bid of the County was never paid has always been used to the detriment of the School of Mines and Metallurgy.

Professor Charles P. Williams, State Geologist of Delaware, was elected Director and Professor of Chemistry and Metallurgy, and William Couch, Instructor in English, and the School of Mines was formally opened November 23rd, 1871 in what is now known as the Rolla Building.

The enrollment of students the first year was twenty-eight, and the second year it was seventy-five. In 1872 James W. Abert, Professor of Civil Engineering and Drawing, and Nelson W. Allen, Professor of Mathematics were added to the Faculty.

In 1873, George T. Emerson was appointed Professor of Civil and Mining Engineering.

The first class to graduate was that of 1874.

Gustavus H. Duncan.....C. E.
John H. Gill.....C. E.
John W. Pack.....M. E.

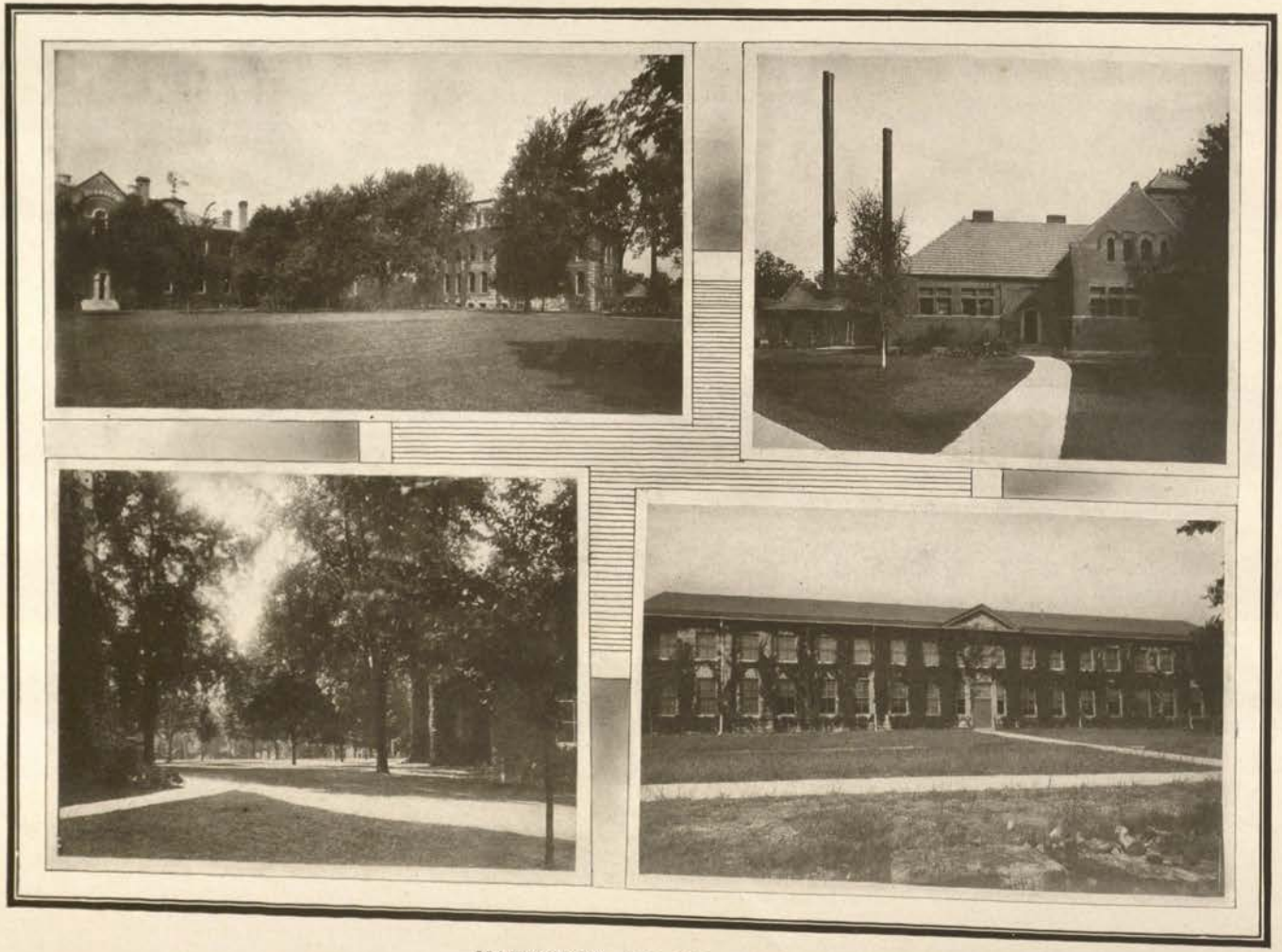
Mr. Duncan is now a consulting mining engineer, Boston, Mass.

Mr. Gill died in 1882.

Mr. Pack is assayer, U. S. Mint, San Francisco.

The aim of those in charge of the school has always been high and the professors have striven to maintain a high degree of excellence in the class-room.

*Report of the Director, 1891



NATURE IN ALL ITS GLORY

"We do not intend to eulogize this institution with high sounding phrases, nor do we mean to underrate the difficulties that each undertaking meets with during its incipient stage, but with pride we acknowledge the unanimous opinion of your committee that this school is highly worthy of the people of the great State of Missouri, and in full confidence of the intent which led to its creation."—"A remarkable feature of this school consists in combining theory with practice." (Legislative Visiting Committee, 1875.) The University catalogue of 1875-6, speaking of the School of Mines says: "It is a School of Technology with Civil and Mining Engineering and Metallurgy as specialties."

Modern technical education demands material equipment. Lack of money prevented the proper development of the School of Mines in this particular. The number of students enrolled in school was always small. To increase the enrollment, the General Assembly authorized an academic course of instruction.

"Academic Course of Study, etc.—That the obligations of the General Assembly assumed by the acceptance of the land grant of July, 1862, may be more fully discharged, and in order to promote the liberal and practical education of the industrial class in the several pursuits and professions of life, the Board of Curators of the State University shall prescribe and adopt a liberal Academic Course of Study to be taught in the College of Mines and Metallurgy, located at Rolla, in addition to the courses now taught in said school, and may confer the degree of Bachelor of Science upon all students who shall complete said course in said school to the satisfaction of the faculty thereof." (Laws 1885, p 25.)

The inauguration of this course increased the enrollment in the school, but did not tend to develop the technical department. This as before stated needed money for its proper development and to carry the practice and theory hand in hand as originally contemplated. Although the facilities for practical study were lacking, the theoretical instruction was always kept at a high degree of efficiency, as shown by the graduates of the school. Among some of the successful ones may be mentioned:

D. C. Jackling, Vice-President and General Manager of the Utah Copper Company, Salt Lake City.

S. J. Gormley, Superintendent of Furnaces, Washoe Smelter, Anaconda, Montana.

Frank W. Wilson, with Milliken Brothers, Engineers and Iron and Steel Manufacturers, London, Eng. Previous to taking his present position, Mr. Wilson was Chief Bridge Engineer of the New York Central R. R. Co., and designed the draw-span across the Harlem river, which at the time was the largest draw-bridge in the world.

John E. Kirkham, Engineer with Carnegie Steel Company, Pittsburg, Pa.

John Cameron, Chief Engineer Consolidated Coal Co. and The Western Coal and Mining Co., St. Louis, Mo.

W. Rowland Cox, Superintendent of Guggenheim's Sons Co., Silverton, Colo.

The real development of the School of Mines and Metallurgy as a technical school may be said to date from the passage of the Collateral Inheritance Tax law in 1901. This law levies a tax of five per cent on all collateral inheritance for the benefit of the State University and provides: "That one-fifth of all such moneys so received shall be devoted to the School of Mines and Metallurgy, a department of said University."

HISTORICAL SKETCH OF MISSOURI SCHOOL OF MINES—Continued

Under the provisions of this Act, the School of Mines has received the following appropriations:

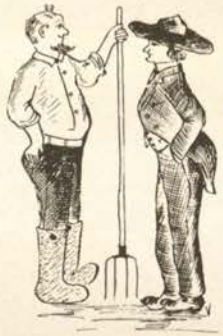
1901	$ 98,000.00
1903	108,000.00
1905	73,000.00

Previous to this time, the School of Mines had received from the General Assembly:

$25,000.00 in 1871 for the purchase of the Rolla Building;
10,000.00 in 1883 for the Chemical Laboratory;
5,000.00 in 1889 for a dormitory, now the Director's residence;
25,000.00 in 1893 for the Mining and Metallurgy Building.

With the collateral inheritance moneys, many improvements have been made. The Chemical Laboratory has been raised to two stories and two wings have been added, trebling the former space. The Mechanical Hall has been erected and equipped for carpentry, turning, forge and machine shop work. Norwood Hall, a magnificent structure 85 feet by 140 feet, four stories high, has been built and equipped with laboratories for geology, mineralogy, crystallography, physics and drawing.

The Ore Dressing and Metallurgy Building is nearing completion. All laboratories are being equipped with the proper mechanical facilities for experimental and demonstration purposes.



Farmer:— Reckon they not again to give their Sheep an Mines.
Professor:— You don't say so.
Farmer:— Yes! Can't get Norwood Hall through the Ear

Besides the income from the Collateral Inheritance Tax and that from direct appropriation by the General Assembly, the school of Mines and Metallurgy has the following permanent income:

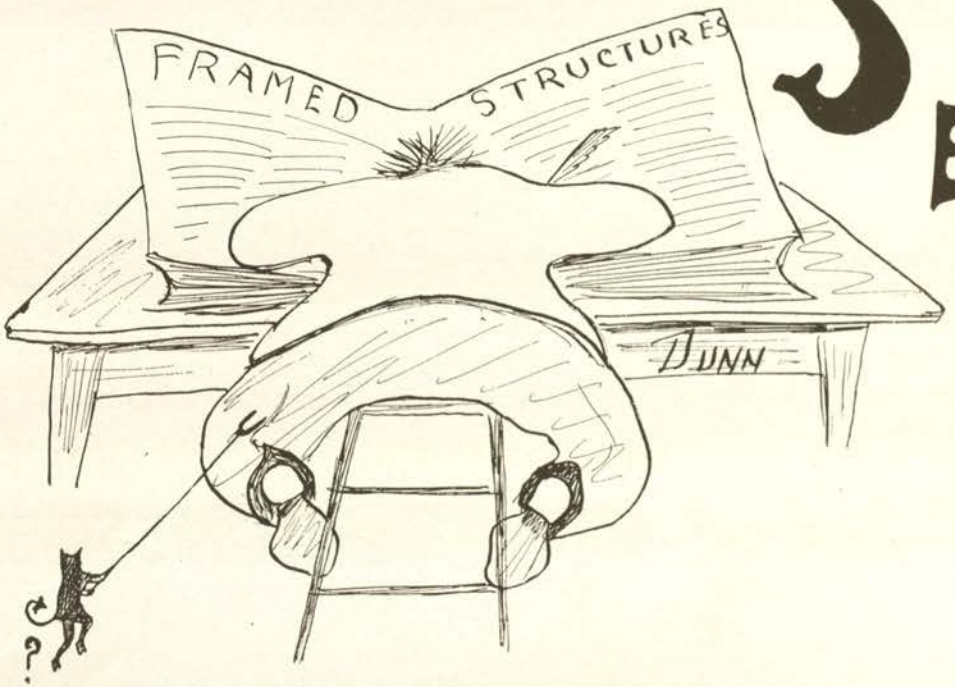
Land Grant Fund	$ 4,475.00
Endowment Fund	6,469.00
Morrill Fund	5,859.00
Total	$16,803.00

The doors of the institution have always been open to women. After the establishment of the Academic Course, the number of women enrolled constituted about one-third of the total enrollment but after the development of the institution along strictly professional lines began, the number of young women enrolled as students decreased until 1905, when there were none in the institution.

Since 1903 the enrollment has exceeded two hundred, almost all of them pursuing one of the technical courses.

The class of 1907 consists of thirty-four members classified as follows:

Mine Engineering	24
Chemistry and Metallurgy	6
Civil Engineering	4
General Science	none



SENIOR

Men may Come
and Men May Go,
But M. S. M. are the only Men,
Who really make the "Dough."

History of the Senior Class



The history of our class,—the best the Missouri School of Mines has yet had—has been in the process of formation for many years in all parts of the world; first in the homes, then in the country schools, next in the high school, afterward in other universities, and finally in M. S. M.—the part in which we are most interested.

The opening of school in September, 1903, found the Sophomore Class, 06, well organized, and on Wednesday night, the 20th, they began the yearly festivities by a tossing contest, the object being to discover which Freshman could be sent the highest or present the most amusing spectacle. The Sophomores were in full force and were provided with the best tossing blanket that ever lifted a Freshman Miner. It was of heavy canvas with handles around the sides, having been constructed especially for the purpose of elevating Freshmen; the size has been estimated by the tossed at from twenty to forty feet in length; it would accommodate about half of '06 crowded around it.

The Sophs. "gathered in" Goodwin, F. L. L. Wilson, Hase, Root and Richards, and gave each a liberal tossing. Then to round out the celebration, they had Goodwin and Big Wilson engage in a dog-fight which was interesting to both combatants. Goodwin had been caught just as he was dressed ready for some social function, in which the Sophomores had got him to believe, and his taking part in the dog-fight was as good as Sir Harry Lehr's stunt of breaking into the fountain in evening dress.

They also had Richards and Root bark at the moon from telephone poles but we have no record of any novelties in the amphibian line, the nearest to it being the failure of the Sophs to get Baker and C. L. Johnson from their rooms; what dampened their ardor there was the water which Johnson and Baker poured on them from the porch.

The result of this excitement was the first meeting of the '07 class and an organization which has since remained all powerful in M. S. M. The Freshmen met under a large locust tree in a valley east of the campus, and across the Frisco tracks from the lake, and elected their class officers for the year. Snyder was chosen President; C. L. Johnson, Vice-President; Easley, Treasurer, and C. C. Baker, Secretary. They organized into groups and selected leaders for the night.

At night they got together again and marched about town giving the new class yells until finally they had roused the Sophomores and

upper classmen. They then went to the football field and under the leadership of Snyder and C. L. Johnson, formed in squares eight deep, and awaited the arrival of the Sophs. The upper classmen were on hand to see fair play. The Sophs advanced in a body, and as they came forward, the Freshmen made a coup which won the night for them. They had a long hair rope, said to have been supplied by "Arizona Pete" Radovich, (some claimed to trace it to a milder sort of individual, C. C. Baker), and four Freshmen on each end of it; with this they encircled the oncoming Sophomores, while the others fell upon them. A wrestling match followed and continued for an hour, when the Sophomores were willing to admit defeat. This ended the excitement of the kind for the year with the exception of the regular annual contest of painting class numerals on the big back-stop in the athletic field. This always occurs just before the first football game in the fall, and the class which keeps its numeral on the board is the winner. Our class won after a most exciting and close contest.

The Sophomores, however, had their turn when the class football game was played; they had the benefit of one year of practice and team work and brought it all into play in the game. Chance also favored the '06 class, and although the game was evenly fought from beginning to end, they won by a score of 11 to 0.

Our class came to the front with the best smoker yet given at M. S. M. and introduced at that time the spar-fighting which was given to us by Abbott. Spar-fighting, a custom from the sea, has come to stay, and will be a feature of every smoker at the school. The apparatus consists of a spar or a round iron beam supported at each end by a saw horse about four feet high so that it can roll laterally for a short distance; the contestants are two in number and are seated facing each other, straddling the pole. The weapons are cushions, each fighter having one in one hand while his other hand is tied behind him. Each tries to knock the other off the spar (onto a mat beneath), by using the cushion, and the sport becomes interesting to watch. Guppy, then of our class, turned out to be the champion, and unseated numberless Sophomore adversaries.

In the spring track meet, the Sophomores did not win as they expected, but they beat us by a score of 14 to 7, their class being fortunate in having the best field man in school at that time.

The next year as Sophomores, and of great number, we made things interesting for the incoming '08 class by gathering in different Freshmen and initiating them into the pleasures of being Miners. The Freshmen had in their class a Rolla youth who got them to organize quickly and start a campaign. Their plans, however, were broken up by an effective ruse; we picked out two good runners and using them as decoys, got the whole Freshmen band in pursuit of them, in the lights and shadows of Rolla's streets at night, with the result that the Freshmen were led a merry chase some distance out of the city into the country. The pursued were not caught and the pursuers came back singly and in pairs and were then taken in by the Sophomores and put through stunts which will grace the history of '08 in next year's Rollamo. It was upon this occasion that Bobby Bedford was tossed so high that he could hear his classmates over the housetops in the other end of town giving their yells; at this time, "Windy" was given a little hazing, the memory of which he will cherish for some little time.

In painting the back-stop at the time of the first football game of the season, the might of our class prevailed and '07 remained in view for another year. In the football game of '08, our team went up against another hard proposition and one of the hardest-fought grid-

iron battles ever seen in M. S. M. park. The Sophomores, '07, had organized into rooting bands, every member of the class being present with a megaphone, making the echoes resound with class yells several times for every opportunity. The score was four to two in our favor, a field goal being made by Frank Wilson, the full-back.

A big celebration followed this game to make the victory more lasting. A building on Eighth, between Rolla and Main streets, was engaged for the night, and the Sophomores were again in full attendance, and enjoyed a good time. On account of the short time, for preparations, the decorations were simple, but the supply of cigars, refreshments, and good feeling was plentiful. Speeches were made by the class officers and the '07 yells were given repeatedly; each player was cheered and in response gave a toast. Plenty of amusement was afforded and the fun lasted until sometime in the morning, when a parade around town was made, the yells and songs being given again. As the line of march was passing the Grant house, the enthusiasm was somewhat chilled by the descent of tubs of water from somewhere above, just as another yell was being given.

The spring interclass meet was one of the most interesting we have ever had and the Sophomore-Freshman scores the closest. We won by 26 to 25. The baseball game was likewise a fine contest, being at the ninth inning 6 to 6 when Frank Wilson batted the sphere and brought in three men, making the score 9 to 6 in our favor.

The class officers for the Sophomore years were: R. A. Barton, President; F. A. Moore, Vice-President; C. C. Baker, Secretary, and E. E. Cook, Treasurer.

For the Junior year, we had E. E. Jones, President; A. G. Baker, Vice-President; F. A. Moore, Secretary, and A. J. Seltzer, Treasurer. During the Junior year, our heavy burden of studies and the dignity of being Juniors kept us from participating in the hazing and class contests, and the fact that we were preparing for Junior Prom. kept us from giving any smokers or other forms of social amusement.

In the spring class meet we beat the Seniors by a very liberal score.

Junior Prom. given by our class was by far the most brilliant and successful ball ever given in M. S. M., and will remain in the annals of the school as a high mark towards which the Juniors may strive. It will be well to mention the heads of the committees appointed by President Jones; Decoration committee was headed by F. A. Moore, and the results obtained were splendor coupled with much good taste in arrangement. C. C. Baker gave substantial aid to the committee by making the large crucibles which were hung at the end of the hall. The music was supplied by Maxwell Goldman's orchestra, the best in St. Louis, with W. C. Richards in charge of the committee. Bailey was chief of the programme committee which got up the beautiful souvenir we shall always keep. The banquet committee under McElroy arranged a tasty and well-selected spread in Chemical Lecture Hall. Snyder was in charge of the ticket committee and arranged for the printing, sale and collection of tickets. The Prom. will be discussed on other pages so we leave it to that description.

Upon coming together for our last year, we elected the following officers: Wm. McElroy, President; V. Hughes, Vice-President; Aubrey Fellows, Secretary, and A. J. Seltzer, Treasurer. Early in the fall, we gave a smoker very similar to that given in our Freshman year. The usual programme of spar-fighting, fencing, boxing, and wrestling was given; some new songs and the old ones were sung, musical selections were rendered, and cigars, pipes and tobacco, and a delightful lunch were served. This brings the history of the class up

to date, except that in the basket ball game, we beat the Juniors by a score of 13 to 8.

The class has always been of good size, numbering 70 the first year, 54 the second, 43 the third and 35 this year. There has been in the class, the largest number of student assistants, the total being about as follows: Surveying, 3; Physics, 1; Mineralogy, 1; Drawing, 1; Assaying, 2; and Chemistry, 4; most all of these holding their positions two years; no other class has had as many assistants.

We have always maintained a high standard, and this year the members of the class unanimously voted to abolish "cribbing" and they did it. The class has been instrumental in stopping the practice of hazing and in promoting class spirit.

This concludes the history of the great class of 1907 while it has been in M. S. M., the trips and Junior Prom. being described elsewhere. What the history will be when written ten years from the present time, we cannot say, but from appearances now, and the number of men already successful, it is predicted that the record will be one of which M. S. M. may be justly proud. It is urged that we keep constantly in touch with Alma Mater in order that the location and achievements of the members of the '07 class may be known at any time.



A LITTLE FELLOW



WILLIAM GARDINER BAILEY, Patterson, N. J.

Mining Engineering, entered '04. Colorado School of Mines. Sigma Alpha Epsilon. Theta Nu Epsilon. Grubstaker. Mgr. Baseball Team, '07.

Has a very happy guileless smile and fetching dimples. Was never known to be angry. A hustling manager.

ARNOLD GEORGE BAKER, St. Louis, Mo.

Mine Engineering Course. Entered '03. Sigma Nu. Capt. Class Football team of '03, 04, '05.

Persuasive, protesting voice, and a suggestion of a wabble in his walk. Splendid fire-fighter; prefers matinee performances. Short of stature but quick of movement. Appears timid but has to use high tensile steel to curb his enthusiasm when anything is started.

ALBERT BABBITT BARTLETT, Cheyenne, Wyo.

Mining Engineering. Entered Sept. '04. Cheyenne High School. Tau Beta Pi. Lucky Strike. Assistant in Surveying. Class, Track and Basketball teams.

Can't tell from his actions what he intends to do. Mysterious habit of fishing up proper knowledge at the time of need. Fusses by sections. Isn't at all bashful when something of the right stripe is started.



RALPH ROBERT BENEDICT, Kansas City, Mo.

Mining Engineering. Entered '03. Out one year. Manual Training School, Kansas City. Grubstaker. Y. M. C. A.

Possesses a corner on laughing gas. Able to make his voice heard, especially when counting "ten." Always in a hurry for the Professor to hurry—further away. Always ready with friendly advances to the stranger.

WILLIAM ERNEST BROWN, Denver, Colo.

Denver High School.

Takes care of Bailey and is still sane. He looks sober but he is a Gay Deceiver. Has brains but does not like to polish them.

ENRIQUE CAVAZOS, Saltillo, Mexico.

Entered '04. From Escuela Preparatoria, J. A. de la Fuente. Mining Engineering. Crandalls.

The Handsome Duke. One of the non-fussers. His voice is so soft that you'd think it wore feathers.



HORACE HERBERT CLARK, St. Louis, Mo.

Mining Engineering. Entered Sept. '04 from Washington University. Graduate St. Louis Manual Training School. Lucky Strike.

Bashful appearance, but he really isn't; threatened with an attack of genius; loves luxury and music. Gave the Frisco a transit once and wired to get it back.

ELDON EVERETT COOK, Plattsburg, Mo.

Civil Engineering. Entered Sept. 1903. Plattsburg High School. Tau Beta Pi. Y. M. C. A. Lucky Strike. Assistant in Physics.

Gentle by nature. Belongs to the finny family of Selachians; some ideas of his own, and a cheerful expression of them not involving even a trace of strong language.

PAUL COOK, Rolla, Mo.

Mining Engineering. Rolla High School. Lucky Strike, Y. M. C. A.

Gentle blue eye which can't be trusted. Can be engaged in a scheme to start something any time. Inclines to small sport. Prefers to run loose. Weakness for $Ca\ Co_3$, in cylindrical form for projectiles.



ROY HAYWARD DeWATERS, Iola, Kansas.

Chemistry Course. Entered '03. Kappa Alpha. Iola High School. Assistant Chemistry. Sec. Athletic Association for the year '03, 04.

Not a big fellow but well known. Modest and jolly. Through Qualitative which he loves dearly, without once having his temper ruffled. Born chemist. Known among the butterflies.

JOHN THEODORE EMANUEL ERICSON, Kumla, Sweden.

Metallurgical Engineering. Augustana College. International Club.

Has a beautiful pink complexion and a Hibernian voice. Unlimited tenacity. Unable to sustain his objections, however. Worships at many shrines. Believes firmly in the hereafter.

AUBREY P. FELLOWS, Salisbury, Mo.

Mining Engineering. Entered '04. Sec. Senior Class. Salisbury High School, and Pritchett College. Sec. of Athletic Association, '07.

Diplomatic member—creates no disturbance (except in Mechanics). Able to get his hand in the grab bag when any prizes come out. Marriage man. Chief ambition is to discover a new fossil.



WILLIAM PETER HATCH, Kansas City, Mo.

Mining Engineering. Entered '02. Kansas City High School. Kappa Alpha. Vice-President Senior Class of '06. Football "M."

Gets into trouble but never gets out. Missed his calling when he did not enter the diplomatic corps.

VICTOR HARMON HUGHES, Sabetha, Kansas.

Mining Engineering. Entered '03. Sabetha High School. Kappa Sigma.

Never loses his dignity—frightened look of diffidence in his eye, combined with wickedness, but his record is saintly. Has a personal grievance against Mack, which appears mutual. If accused of being popular his modesty would make angry protest. Selachian—of course.

ELSTON EVERETT JONES.

Graduate from Preparatory Department of New Mexico School of Mines, '02. Mining Engineering. Coyote Club.

Performs well as a procrastinator and shows up well in a close finish. Decidedly popular with both sexes. Supposed to be specialist in geology. Usually a good manager but loses his head over parliamentary rules and a rough-house.



OTTO ERNEST KLOCKMAN, St. Louis, Mo.

Entered '04 from C. B. C. Baseball '05. Grubstaker.

The Goat. Put him out! Why? Because he's so good natured—he'll get in again. Never became acquainted with the mildest form of dignity. Looks demoralized but deceives his looks.

JAMES CARTER LONG, St. Louis, Mo.

Mining Engineering. Entered M. S. M. Sept. '04 from Central High School. Grubstaker. Football team.

Feminine complexion; superior air. A continual itching to start something that he can't stop. Devoted to devising plans for making short cuts to success. Would be a good sprinter if his feet could keep pace with his ideas.

FELIX ANTHONY LYNEMAN, Denver, Colo.

Mining Engineering. Entered 1906. East Denver High School, 1902. Sigma Nu. Theta Nu Epsilon.

Indulges in midnight festivities sometimes with disastrous results. He tried to reform "Chucky" but gave it up.



WILLIAM McELROY, Ft. Scott, Kansas.

Mining Engineering. Entered '03. President Senior Class. Graduate of Ft. Scott High School. Grubstaker, Y. M. C. A.

Magnetic mixer. Took him just half an hour to start school spirit—got part of the spirit plus all the wind choked out of himself. Tortures Vic and said Cribbing had to STOP.

WILLIAM ARTHUR McTIGHE, Memphis, Tenn.

Entered '99. Out of school three and one-half years. Pi Kappa Alpha.

Beautiful wavy hair and an aristocratic manner. Appears about to say something desperate but loses his temper only over Geology, which he came all the way from Memphis to take. Irresistible with the ladies.

FREDERIC ARNOLD MOORE, St. Louis, Mo.

Entered '04. Mining Engineering. Graduate Hopkins High School. Assistant in chemical laboratory. Y. M. C. A.

Almost persuades you he is talking sense by his judicial and fatherly air. A hard and enthusiastic worker with plenty of gray matter. Happy marriage man.

WILLIAM CRUTCHER PERKINS, Plattsburg, Mo.

Civil Engineering. Entered Sept. '04 from Plattsburg High School. Secretary class of '08, for year '06-'07. Member Y. M. C. A. Member of Lucky Strike Club. Assistant in Surveying for '06-'07.

Modest as a maiden. Careful of his speech and was never known to be rude. Sometimes forgets to let his voice fall at a period when addressing an audience—whereby he is mortified some. Has a way of finishing what he starts.

PAUL ANDREW PHILLIPPI, St. Louis, Mo.

Civil Engineering. Entered 1904. Y. M. C. A.

Expert on sarcasm; hear him talk and you'd think he was wicked. No harm in the youth. Will be happy when some one invents a plan to succeed without grinding. Special affinity for Geology and English.

WALTER IRVING PHILLIPS, Wheaton, Ill.

Chemistry and Metallurgy. Entered '04. President of Y. M. C. A. and President of Lucky Strike Club. Graduate of Wheaton College.

Kind and fatherly. Follows the scent of "good things." Has his own ideas about things and doesn't hesitate to back them up. Something doing when he starts.





WALTER COFFRAN RICHARDS, St. Louis, Mo.

Mining Engineering. Entered Sept. '03. Graduate Central High School. Kappa Sigma Frat.

Artistic boy and deserves a better fate than anything so unbeautiful as a Miner; would reduce primeval chaos to order and neatness. Related to Selachians.

JOHN PAYNE SEBREE, La Junta, Colo.

Mining Engineering. Entered '05. Colorado School of Mines. Lucky Strike Eating Club. Y. M. C. A.

Has a confessed horror for exertion, especially of the mental variety. Possesses a morbid craving for lofty grades and possesses a splendid collection of the preferred brand. Blushingly admits that he has an acquaintance among the ladies.

ANDREW JACKSON SELTZER, Denver, Colo.

Chemistry and Metallurgy Course. Entered Sept. '03. Treasurer of '07. Graduate East Denver High School. Pi Kappa Alpha. Manager of Coyote Club. Vice-President M. S. M. Athletic Association. Assistant in Assaying and Metallurgy.

Angel of assaying. Adopted child of fortune and man of affairs. Where he goes there goes commerce treading on his heels. Loving, lengthy and liberal.

BYRON JOHN SNYDER, Festus, Mo.

Chemistry Course. Entered '03. Carleton College, '99. Crystal City High School. Run a small club of my own of three. President of Athletic Ass. of M. S. M., '07. Assistant in chemistry for two years. Class football of '03-'04.

Threatened with ponderousness and essays melancholia which refuses him being contrary to happiest of natures. Went to the bad chewing paraffine. Was caught using a mirror in the Lab. A man of family.

SAKUHEI SUNADA, Yamanashi Ken, Japan.

Cogswell College, San Francisco, M. S. U. Chemistry and Metallurgy course.

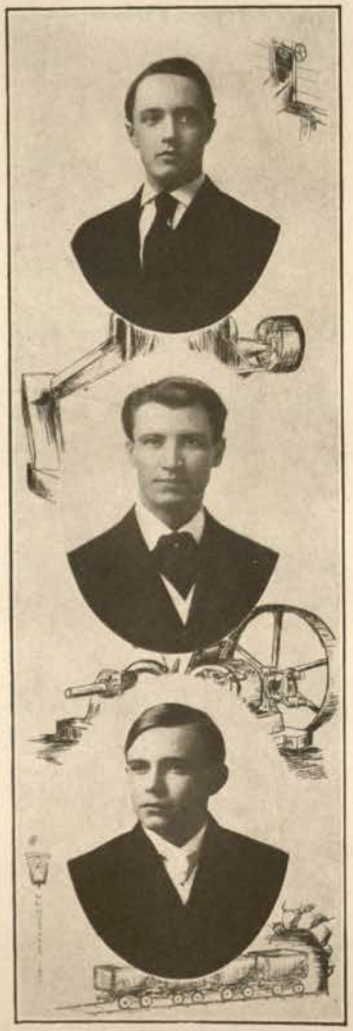
Had a sweet disposition until spoiled by Vic and Wils. Ruined a fine career running with Ericson. Spends his time defending himself and asking for strange chemicals and books.

JOHN THOMAS VITT, Union, Mo.

Civil Engineering. Entered Sept., '03. Graduate Springfield High School.

Characteristic style of locomotion. Resembles a highly charged explosive with the fuse lighted. Has a standing threat to turn toper but never was caught with the goods. Really related to the Selachians, but who would suspect it. Que quiere V.?





EDWIN RICHARD WASH, Pontiac, Ill.

Mining Engineering. Entered '03. Graduate Pontiac High School. Sigma Nu. Class baseball '04.

Handsome courtier with a confidential manner. So modest, however, that he is confused at his own success. Near relative of the Selachians. Many believe his innocence deceiving. Mysteries about heart affairs.

FRANK LEWIS LEONARD WILSON, Des Moines, Iowa.

Mining Engineering. Entered Sept. '03. A. B. Drake University, '98. Kappa Alpha. Capt. Baseball Team. "M" Baseball, "M" Track. Assistant in Mineralogy. Class football, baseball, track.

Perpetrated ferocious stickpins on Sunada. Envies Moore's whiskers and dotes on chemistry. Gets stage fright and threatens to flunk but always makes the exempt.

IRA LEE WRIGHT, Sedalia, Mo.

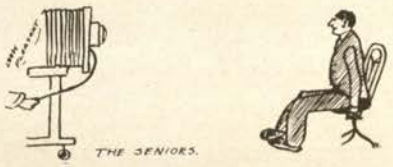
Mining Engineering. Entered '01. Out of school two years. Hughesville College. Pi Kappa Alpha. Assistant in surveying.

Has the suspicion of a drawl. Gets worried in a motherly way if he gets short weight in grades. So steady that he might be mistaken for a marriage man.



TSIK CHAN TSEUNG, Hunan, China

M. D. Oberlin. Entered M. S. M. Mining Engineering.
Double eccentric motion to either arm. Revels in Contracts and gets delirious over Frame. Uses his cue as a weapon and has grave difficulty in demonstrating his viewpoint, but is forever trying.



The Junior Mining Trip

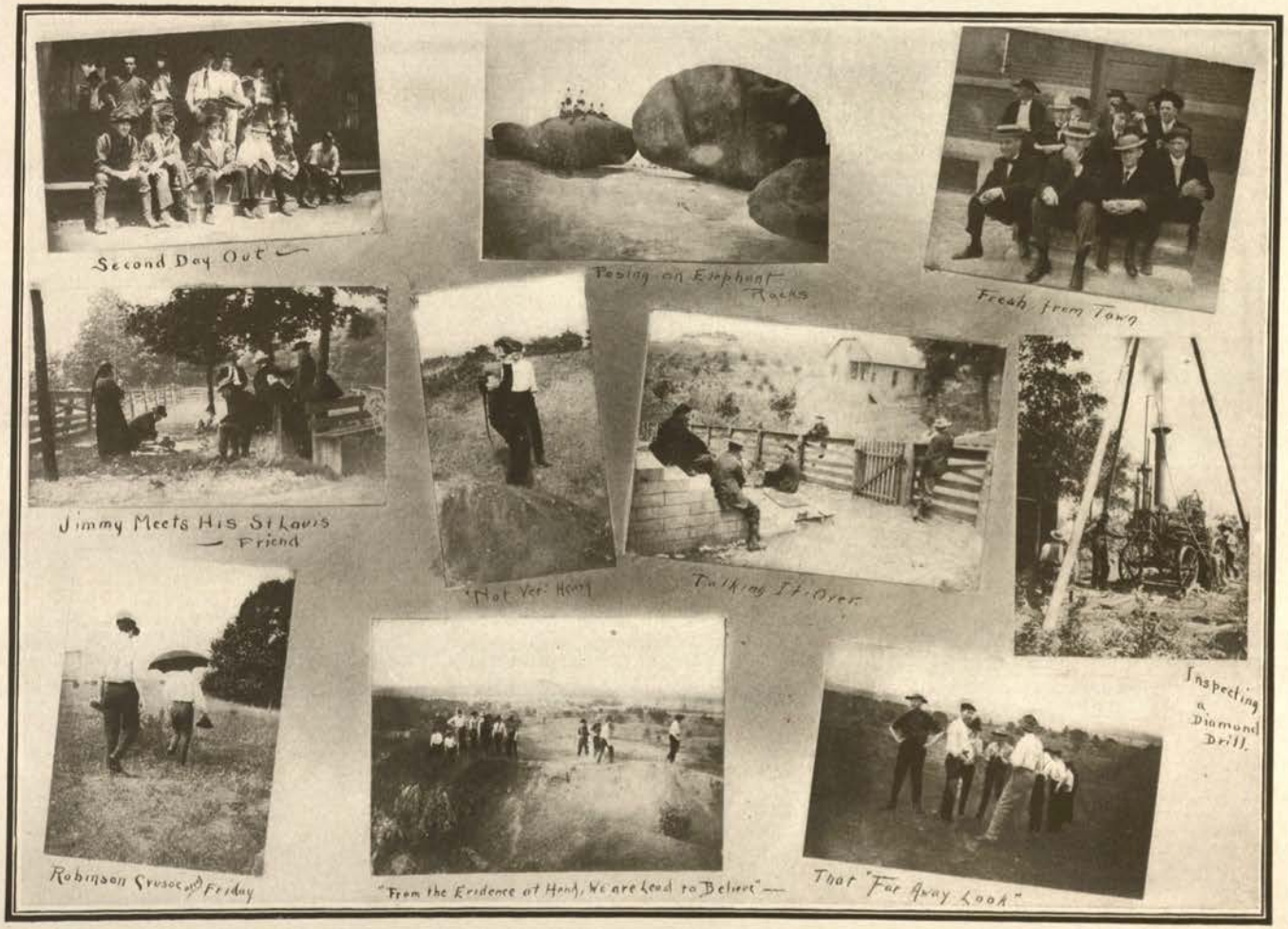
Only twelve Juniors had the good fortune to make the mining trip to the Southeast Lead Belt, I say good fortune, for it really was a trip that will be long remembered by all who took it, and there isn't a man but who will say that he would like to do it over again.

We left Rolla on the morning of June twelfth, and from the start we had our eyes open for the different geological structures along the railroad track. Some saw from the car windows the large unconformities and the big fault just before we reached St. Louis, and the rest of us thought we did and said so.

St. Louis, our first stop, was the place of many happenings which really did not appear on either of the professor's schedules. The point of interest was the Evans-Howard Brick and Tile Works and their clay mine; and everyone's intentions were good—and they were all going to be there on time, but the ball game and other duties detained some. We had to listen to the rest tell how nice the clay was, what great sport it was to sling mud, and to put it in one of the member's hair. This member, by the way, had lots of fun himself, and furnished a great deal of amusement for the crowd on the whole trip. That first night out, he spent, he said, looking up some of his countrymen who looked after the cleanliness of St. Louis people's clothes, but we know that he never did go to bed, although he was on hand bright and early the next morning. One of our members from the far Southwest, not having had a good meal since he was a boy, thought he would invest in a good juicy beeksteak, costing him, the first time he told of it, and he told of it often, $.75, but as he repeated the tale the price grew until finally the cost was $1.60. The mere mention of a beefsteak will cause all members of the party to smile even to-day.

We left St. Louis the following morning, our next stop being Herculaneum, where we visited the lead smelting works of the St. Joe Lead Co. Here we saw practically the whole method for the extraction of metallic lead from the ores mined further south at Bonne Terre and Doe Run. We followed the ore from the time it reached the plant until it was loaded as pigs into the cars. They have here the largest blast furnace in this country. There were also a number of smaller ones.

We had hardly finished going through the plant before everyone wanted to know where we were going to eat, for we had not seen any town as yet; but we finally came to the house where we had our long-



"MEMORIES SWEET IN YE OLDEN YEARS."

THE JUNIOR MINING TRIP—Continued

ing satisfied. It was while waiting for dinner that one of our St. Louis members met one of his fellow countrymen who tried to sell us some "tings." But after he had finally showed us his complete stock, no one wanted a thing. It was here our friend with the all night habit got cute and had his little fun with the peddler. After dinner, which was one of these old-fashioned kind where they put everything on in big platters, we were left to ourselves to visit the smelter or to wait for the train the best way possible. We moved up to Bonne Terre that afternoon, and then started on a hunt for a place to stay. Bonne Terre is a town of some ten thousand inhabitants, a town where hogs and automobiles run loose on the street at the same time. We finally found a hotel big enough to hold the crowd. I started to say accommodate, but there were no accommodations. That night some of the crowd tried to dance in the parlor; there was also some singing by members of the party, and they were not all Juniors either. But everyone was tired enough to turn in early.

The mines of the St. Joe Lead Co. were visited the first thing in the morning, and it was here that we got our first idea of a real mine. After fitting ourselves with lights and climbing down some ninety feet of slimy ladders we really commenced to see things. It was here that our friend from the mining country of the West got lost while looking at the trains go by. The haulage system of this mine is operated by compressed air engines. We followed our guide for what seemed like miles through drifts, down winzes, and we were just beginning to wonder if we had to go back over the whole mine and up those ladders again when we came to another shaft and were hoisted to the surface. We were treated with the finest consideration and everything was done to show us just how the actual work is carried on. We could not have had better treatment had we been the company themselves.

We went to Leadwood on the same day, and visited the Hofman mill, the best arranged and most up-to-date mill in the district. The trip from Bonne Terre to Leadwood is fully worth anyone's time and money.

We moved on to Desloge where we met one of our old schoolmates who took a good deal of pains to show us the full workings of all the different parts of their complete mill. We all voted that we were learning about the milling of lead ores, and wished that he might continue the trip with us. After dinner we walked to St. Francis, but were unable to get in the National mill, so kept on into Flat River and visited the Federal mill and learned all about sand wheels and hydraulic classifiers. This was quite a jaunt and, with the suspension bridge, made a hard walk for some of us. It was on this trip that the crowd seemed to lose its remarkable sight, and passed right by a drinking fountain on their way up the hill. The night was spent in Flat River, everyone staying where he could.

Doe Run was the next stop after we had walked back and taken in all the sights of the National mill. There we saw electricity made use of in their haulage, hoisting, and in a few drills. Our stay at Doe Run was a very enjoyable one. Mr. Graves did everything to show us a good time. Even taught some of us to bowl. The mill was visited and the roasting furnaces were especially interesting, it being the first time that many of us had ever seen a charge drawn.

We spent the night here, and Sunday morning, after visiting the mine to see some granite contacts, we were shown through Mr. Graves' private collection of minerals, and curios, it being one of the largest collections in the country. Mr. Graves himself acted the part of guide and told us the history of each important specimen.

That afternoon we reached Bismarck. Using Bismarck as headquarters, we spent Monday at Iron Mountain, the town by the way, being rightly named, "The Deserted Village,"—the mountain itself being a mile away. We spent the largest part of the day wandering over the hills, seeing the different formations, and afterwards hearing about them. It was on this trip that one of our St. Louis friends developed such a fondness for geology that we had to name him "Friday." "Crusoe" with his umbrella and his man "Friday" will be seen in one of the accompanying pictures. We returned to Bismarck by train and after a good supper we were told more of the geology of the region visited.

Tuesday we visited the granite quarries of Graniteville and Scheinder, walking over from the town of Iron Mountain. Here we saw the large granite—known as "Elephant rocks." These granite boulders reach a height of sixty feet. From Scheinder we walked to Pilot Knob.

Our friend with the huge appetite for beefsteak developed at this time the "happy faculty" of getting lost about the time for a long walk. We saw on Pilot Knob some wonderful iron deposits which were at one time considered to be an Algonkian sedimentary formation, but this view is not supported by recently developed evidence, and several theories have been advanced. We took the train at Ironton for Bismarck and that night we were all tired enough to turn in early.

We came back to Ironton on the following day, bringing our baggage with us. Shepherd Mountain was the first point of interest. The formations here are about the same as on Pilot Knob. The crowd was feeling like the "morning after" and just tagged along with very little to say.

Under a wagon bridge between Arcadia and Ironton we saw a ledge of rock which the geologists believe to be of the oldest rock formation. In the afternoon we visited Shut In and saw what is supposed to be a superimposed river, a river valley cut down through granite while it could have gone an easier course. That night members of the party gave a dance in Ironton and had a fine time. Some of the fellows knew girls, and the others were not very long getting acquainted. It is said that our "pretty boy" tried to take another's company from him, but that is only hearsay.

All of the next day was spent in reaching Joplin. We went by the southern route, traveling on six different trains, and changing five times. A description of that trip would be an infringement on the copyrighted book, "On a Slow Train Through Arkansas." If anyone thinks that book is exaggerated they should make the trip from Williamsville to Hunter. We reached Joplin at two o'clock in the morning to find the hotel to which we had our mail forwarded, torn down; and we had to get rooms where we could. From that time on the party was divided. Our friend who had such a good time in St. Louis, had quite a time finding a place here and afterwards changed quarters a number of times.

We didn't do much that day except visit one small working and some tailing mills at Chitwood. Saturday, Monday and Tuesday were spent at mine surveying. Here is where we gave up sightseeing and got down to hard work. The mine we surveyed was some six miles out, and we crowded into a four-seated surrey and drove out to it each morning. The first time we went out we thought it was great sport, but afterward it grew terribly monotonous. The riding three in a seat with the instruments piled all over our feet was not all that it may seem

THE JUNIOR MINING TRIP—Continued

to be. When it came to doing the real surveying we all felt that we had best take Soph surveying again, but we finally grew accustomed to running an instrument underground, and got along very well. When it came to reading angles with a lamp we were all at sea. We never could get the light in the right place.

It was during this mine surveying that the miners had such sport with us. They cautioned us about being sure to hold to the bail of the ore bucket in case the rope broke. It can be seen that this was heeded by noting our positions in one of the accompanying pictures. It was also at this place that they fired off a blast of some ten sticks of dynamite and forgot to yell: "Fire." They said that was just a small "squib" shot. Some of us are still wandering what would have happened if they had really put in a blast. After the survey was finished and the notes plotted, we visited other mines and mills of the district.

Wednesday, June 27th, was spent in examining some blanket type deposits at Portland Lease of Webb City. This mine resembled more nearly the regular vein mining than anything we had seen previously or was seen afterwards. At Webb City we caused more excitement than any other place visited, some natives thinking a side show was in town.

The afternoon was spent in visiting mines at Oronogo and the Yellow Dog mill out of Webb City. The latter was the most complete mill in the district. A number of fellows dropped out before we reached the Yellow Dog, thinking they could get a better view from the grand stand at the ball game.

On the following day we visited the region of Duenweg, where we saw for the first time the working of an electric drill. Some still have a vague recollection of a shaft with a "kink" somewhere in this neighborhood.

In the afternoon, some were rewarded after a long walk by seeing the opening of some new mining property at Scotland. It was remarkable how quick that return walk was made, some returning in time for the ball game.

Friday we took the electric car for Kansas to see just how mining was conducted in that State. Elsewhere in this publication is a picture which shows their style and method better than words. We drove over from Galena to Bodger, and of all dusty roads, this was about the worst of the whole trip. At Bodger we saw some open workings and also had our second experience with a suspension bridge.

We drove to Lowell where the Spring River power plant was examined. The electric power for the whole district is generated at this plant. The power is obtained by means of a dam and large turbines to which are connected the generators. There was also being installed a large steam power plant to supplement the water power in case of a breakdown.

Our last day was spent in visiting some "soft ground" workings where timbering had to be used. The stone quarries of Carthage were also visited.

At this time, the principal thought in the mind of all was: what is our next stop, and how soon shall we start for home? Some of the boys were lucky enough to secure "jobs" in the district, some at hard work and others firing gas boilers. It is not known just how long they did work, for they would never tell, but none were any worse for the wear when school opened in the fall, and some were mine owners.

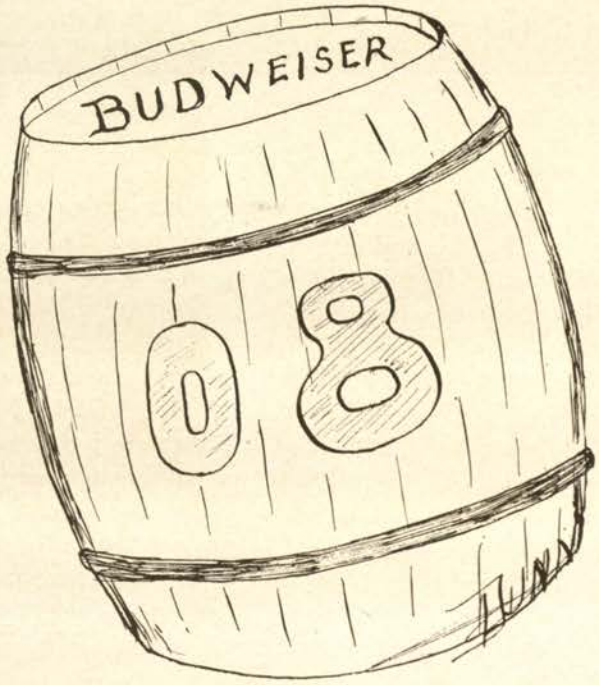

Hold on to the Bail.
Getting Down to Bottom Facts.
Miners!
Asleep
Back from the Mines
Doc Draws a Crowd
Lead Smelter
The Way They Do in Kansas
Lead Roosters



THE CUT

No fossils, but an ancient secret song
For casting spells was found in chert concretion,
And the girl of Rolla as she walks along
Here mumbles quickly that old incantation.

JUNIOR



HISTORY OF THE CLASS OF 1908



The history of the class of 1908 has hitherto been a buried treasure, and this year it has been dug up only to perpetuate the episodes, red letter days, and common events that have gone to make it a distinct class history. It's a well-known fact that history repeats itself, but with the class of 1908 we find no such occurrence.

In the fall of 1904 we arrived about seventy strong, and were ushered through the mysteries of registration, an unorganized, undisciplined bunch of "would-be" engineers. As Freshmen we were entertained by a delegation of the Sophomore class, and they certainly showed us a good time. But it was not long until we were able to reciprocate in like manner and make things a little exciting for them. Raymond Lavin was our class president.

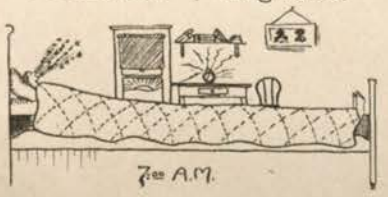
Then followed a year of Freshman frivolity, pardon me, I mean rough-house. Several of the class of 1908 made the athletic teams of this year with two more captains among our number.

Time passed rapidly and it seemed hardly a year before we had become Sophomores. We were then on the entertainment committee for the newcomers of the class of 1909, and we feel that we were more than successful in showing them a good time. A. Emory Wishon was elected to the class presidency for this year. We were again well represented in athletics, two of the captaincies falling to our lot, others of the class on the teams.

Now that we have acquired the added dignity of being Juniors we are waking to a fuller realization of the responsibilities of our work, and in consequence we are working harder than ever before. Needless to say we are again well represented on the various teams.

Edward P. Barrett was chosen class president for this year.

The time is not far off when we'll be Seniors, but when the fall rolls around and we are called to take the places of those who have gone before us, we shall as usual cover ourselves with honors; and when the goal, "graduation" has been reached, we are confident that "1908" will furnish her quota of those who are to make practical Mining Engineers.



JUNIORS

Anderson, Hector George Sylvester.....Kearney, Nebraska.
Baker, Charles Armstrong Fort Madison, Iowa.
Barrett, Edward Phillip Hastings, Nebraska.
Boland, Earl Frederick Syracuse, New York.
Boles, John Hyer Lake Springs, Missouri.
Boyer, George Hewitt St. Louis, Missouri.
Cooke, Thomas Grant Mansfield, Ohio.
Ham, Roscoe Conkling Kansas City, Missouri.
Hinsch, Van Buren Davenport, Iowa.
Holm, William Mellor Chicago, Illinois.
Hynes, Dibrell Pryor Ft. Smith, Arkansas.
Johnson, Horace Asabel Brookfield, Missouri.
Kellogg, George Frederick Skidmore, Missouri.
Mann, Horace Tharp Canon City, Colorado.
Mix, Ward Barr Hailesboro, New York.
Mook, Robert Lee St. Louis, Missouri.
Murray, Edmund Phelps Lake City, Michigan.
Neer, Don Morgan Winfield, Kansas.
Nye, Alfred Leo Kearney, Nebraska.
Philippi, Paul Andrew St. Louis, Missouri.
Radovich, John Christopher Bisbee, Arizona.
Sandford, John Joseph Dansville, New York.
Sedivy, Miles Cleveland, Ohio.
Simington, Francis James Chicago, Illinois.
Spofford, Howard **Nelson** Haverhill, Massachusetts.
Smith, Harry Gilham Vinita, Indian Territory.
Taggart, James Albert Freeport, Illinois.
Thornhill, Edwin Bryant Gray Summit, Missouri.
Walker, Leland Ross St. Louis, Missouri.
Wood, Clyde Rex Sheridan, Wyoming.
Worel, Lish Plattsmouth, Nebraska.

THE MINING ENGINEER

He's the chap in spotless kahkis,
He's the chap in corduroys,
He's the chap with trousers damaged in the rear;
He's a man of fashion's stamp,
He's a ragamuffin's tramp,
But he's known from Dan to 'Sheba as the Mining Engineer.

He's a man of peaceful habit,
He's a man of tranquil mind,
And it's hardly right to say he knows no fear;
But you'll generally find,
There's a "Luger" slung behind,
That is used on provocation by the Mining Engineer.

He will burrow in a hill-top,
Till it runs a stream of gold
In the pocket of some Wall Street financier;
But it cannot be denied,
That a little on the side,
Is acquired during the process by the Mining Engineer.

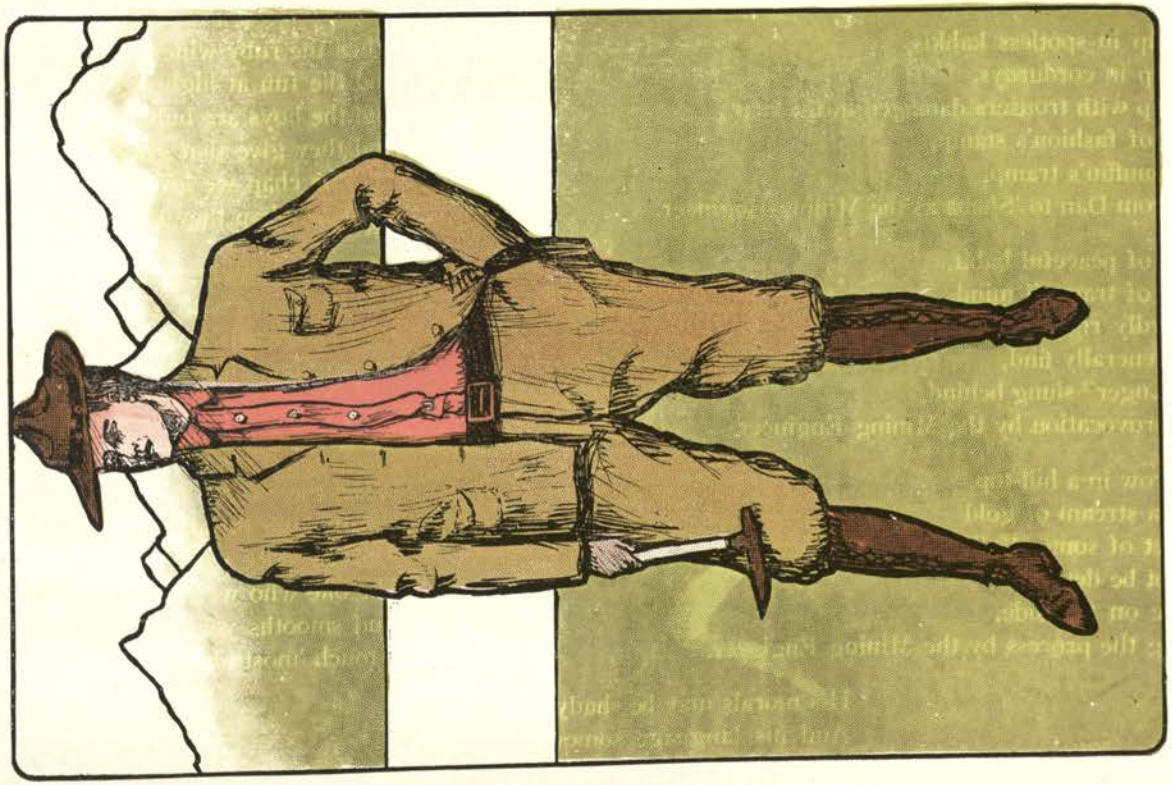
When the ruby wine is reddest,
And the fun at highest tide,
And the boys are bubbling over with good cheer;
And they give that good old toast,
"To the chap we love the most!"
You'll find the chap they mention is the Mining Engineer.

When the crawly, creepy ore bed
Closes on you with a rush,
And the timbers crumble up and disappear;
Day on day without a rest,
He'll do his level best,
To pull you out, and dust you off,—the Mining Engineer.

When the swamp fiend sends the fever heat
A-throbbing through your veins,
And the 'dobe walls look far away and queer;
The one who wets your lips
And smooths your pillow-slips
With a touch 'most like a woman's, is the Mining Engineer.

His morals may be shady,
And his language somewhat rough;
He may have a vulgar longing for his beer;
But that's just a sort of shell,
He'll stick with you through Hell,
Like a pretty decent fellow,—like a Mining Engineer.

(*From Michigan College of Mines.*)

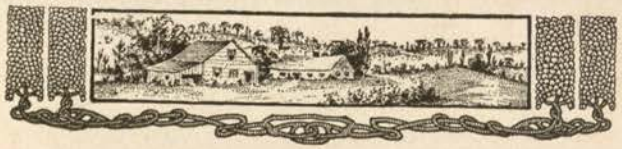




IT

I ME

THE FUTURE



Ring a rhyme of hard tack,
Bacon, bread and beans.
How'd you like to be a Mining Man,
Sans friends and means.

When they hand you your Sheepskin,
Colors white and gold;
All you knew was in a book,
Covered o'er with mould.

But what you had, you'd dug for;
You can dig some more;
Where you find the "float" boys,
There you hunt for ore.

The job you take may make you quake,
Bat it out to right,
Lessons learned and honors earned,
Are hammered out at night.

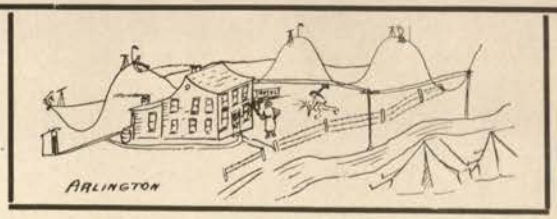
You'll swear a bit but never quit,
Didn't go at school;
Buck the line in rain or shine
Makes a Miner's rule.

And when at last the worst is past,
And larger grows the check,
'Twill be your joy to see a boy
Just out of Rolla Tech.

Sophomore



THE SOPHOMORE CLASS



Foreword.

TO THE EDITORS OF THE ROLLAMO:

In compiling this brief review of the class of 1909, I have endeavored to put forth as modestly, and yet in as fitting manner, the glory that effulges from the aggregate constituting the above-mentioned class. In no other class in the school at the present date will one find the balance, the poise, the intellectuality that predominates in this group of men.

My labor has been one of love and loyalty to the brother members and should there, by any chance, be any exception taken to remarks I have made, I trust that the matter may be amicably adjusted.

Thanking you for the privilege granted me in composing this symposium, I remain,

Yours sincerely,

THE AUTHOR.

NAME	HOME ADDRESS	REMARKS
Baueris, Wm. A.	Heidelburg, Germany, and Chicago, Ill.	Member Kappa Alpha, known as "De T'ug."
Beckner, F. C.	Salt Lake City, Utah, care Brigham Young.	Member Pi Kappa Alpha. Has shown desire to convert several young ladies to the Mormon faith.
Bedford, A. H.	Auckland, N. Z.	Profound indifference to clothes and books.
Bowles, J. J.	Lake Springs, Mo., and Rolla, Mo.	Husky farmer. Good man in class "Rough Houses."
Chamberlain E. L.	Rolla, Mo.	Another farmer. Noted for good scholarship.
Clarke, W. D.	Rolla, Mo.	Member Sigma Nu. Captain Sophomore Basket Ball team.
Compton, J. Crawford	Independence, Mo.	Member of Sigma Nu. Good work in class football.
Dobbins, Walter	Champaign, Ill.	Incipient tendency to bum. Lost his corduroys to the Freshmen.
Don DeForest	Rock Island, Ill.	Big, good natured. President of the class of 1909.
Dosenbach, B. H.	St. Louis, Mo.	Member of Kappa Sigma. Fast Varsity Base Ball man.
Dougherty, J. W.	Cincinnati, O.	"Mick" member of Sigma Nu. Has cow-boy aspirations. Has been as far west as Junction City, Kas.
Drake, Robert Lemon	Kansas City, Mo.	Famed as the "Big Chief." Is a lemon in most everything but base ball; he's a peach at that.
Dudley, Boyd	Gallatin, Mo.	Some day will be a celebrated chemist and metallurgist.

NAME	HOME ADDRESS	REMARKS
Dunn, T. S.	Waukegan, Ill.	Member of Pi Kappa Alpha. Entered school from Lake Forest. Made good.
Elicano, V.	Masinloc, Zambales, Philippine Islands.	Wears plenty of clothes and is math. shark.
Elliott, E. A.	Haileyville, I. T.	He's a 'Wampus Cat" and has frequent howling nights. A fast man in foot ball.
French, C. L.	St. Louis, Mo.	Good track work. Inclined to be a "grind."
Gardener, F. B.	Staunton, Ill.	The original "Hobo Kid." Never was a quitter.
Garst, H. O.	Cabool, Mo.	"See Garst for pennants." Unfortunate combination of initials H. O. G.
Garza, Antonio	Saltillo, Mexico	The handsome Mexican who sings.
Hall, W. S.	Pleasanton, Kas.	Member of Sigma Nu. Can he sing?
Holmes, Oliver W.	Rolla, Mo.	Hoistman. Likes to monkey with machinery.
Harlan, John D.	Moberly, Mo., now Telluride, Colo.	Running the Liberty Bell mill at Telluride (at least he's working there.)
Humphrey, Brighton W.	St. Louis, Mo.	Better known as "Chicken." Addicted to loud clothes.
Jones, W. H.	St. Louis, Mo.	Just because his hair is curly.
Judy, P. S.	Camp Point, Ill.	The pride of Iberia. Always looking for a punch.
Kendrick, R. T.	E. St. Louis, Ill.	Member of Pi Kappa Alpha. Entered M. S. M. this year from M. S. U.
Killian, R. D.	Perryville, Mo.	Temporarily out of school. Will be back next year.
Ladd, Hammond	Rolla, Mo.	The infant prodigy, his papa is the Director.
Langsdale, B. W.	Kansas City, Mo.	Entered this year from M. S. U. "Boys, have another one." Has he got you yet?
Lemming, P. B.	Cape Girardeau, Mo.	Member of Kappa Alpha. Has taught school but is entirely reformed.
Loveridge, F. R.	Batavia, N. Y.	He's fast, (on his feet). Made his letter in track.
McCrae, R. F.	Rolla, Mo.	"Buster" member of Kappa Alpha. Good work on Varsity Base Ball team.
McCutcheon, W. F.	Wichita Falls, Tex.	"Bad man from Texas." He had a hunch he could play poker. Bum hunch.
Michael, Pearl Fred	Rolla, Mo.	He's Irish, but he can't help that either.
Murphy, B. F.	Bonne Terre, Mo.	He is that guy they call Pat. Member class football team.
Nachtman, Frank	Junction City, Mo.	Entered this year from K. U. Played in class football game.
Ohnsorg, Norman Lloyd	Hunterville, Mo.	Star basketball man. He "also ran" in track.
Olin, David	Kansas City, Mo.	Member of Kappa Sigma. "Ugly" sure is a football player. Made Varsity both years.
Palomares, R. de	Mexico City, Mexico	English is "hardaszell" for him. He is a good Mex.
Peeso, Wm. D.	Junction City, Kas.	Red headed runt. Varsity catcher and Class pitcher. All to the good on the diamond. Member Pi Kappa Alpha.
Pfeiffer, J. D.	Fullerton, Cal.	"Goimony" is a member of Kappa Alpha. Played in class games and did a good quarter on track.
Pollard, A.L.	Batavia, N. Y., or Batville, N. Y.	Entered this year from Case Scientific School. Member of Beta Theta Pi at that school. Record of six E's in one term.
Shah, A. M.	Vilma, Russia	May be a Nihilist in Russia, but he is a good peaceable citizen in Rolla.
Wander, Ernest	Chicago Ill.	"The Count von Snipe." Will bite at anything. Actually went snipe hunting.
Watson, Ralph W.	Salt Lake City, Utah	Member of Sigma Nu. "Gloomy" is an earnest advocate of Mormonism and roulette.
Whitener, O. M. C.	Fredricktown, Mo.	"Union Metalic Cartridge." Roomed with C. C. B. ! ! !
Wiseman, E. W.	Washington, D. C.	"Pie Wise," thinks he is an artist. Personal friend of Teddy's.
Wolf, E. J.	Mt. Vernon, Ind.	"Mose." Basketball, baseball, chemistry, shop. Gee, but he's a gun.


RULES
FRESHMEN MUST
NOT WEAR
CORDUROY PANTS
NOR SIT ON THE
STEPS OF NORWOOD HALL.
FRESH-
MEN

Deeds and Misdeeds of the Freshmen

The history of the Freshman class very properly begins with the first class meeting which was held on the afternoon of September 17th. The place of this memorable event was the cornfield back of Orphan Boy near Frisco Lake. The meeting was held in fear and trembling lest the Sophs should break it up. After a lengthy discussion of the wrongs both inflicted by, and expected of the Sophomores, and after listening to the horrible tale of the "haze" meted out to our most worthy classmates, "The Gold Dust Twins," it was decided that we should throw off the yoke of the oppressor and manfully stand up for our rights against the oppression of the Sophs.

How manfully we stood up for our rights, I think several at least of the Sophs will bear witness, though, of course, we did not at all times manage to escape from their clutches. Personally, I have a rather vivid recollection of a trip which I took rather unwillingly to the graveyard in the company of several of our class enemies, and also have a recollection of sundry events which transpired there, events in which a rope, a blanket, a pair of clippers and a bottle of iodine figured rather prominently.

Early in October we got together and after a rather stormy session elected our class officers who have proven in every way satisfactory and alive to the interests of 1910.

Soon after this election we were surprised to find Rolla covered one morning with posters on which the Sophs elected to set forth what we might and might not do. We retaliated by posters on which we stood up for our rights and challenged the Sophomore Class to meet us in a fair fight in a class rush. Much to our surprise our offer was accepted and on the morning of October 20th, we erected a pole on the football field, to the top of which we nailed our colors, gold and black. For nearly an hour we defended these against the fierce attacks of the Sophs and were at the end of that time awarded the contest by the judges, and were allowed to paint our numerals on that historic fence, the back-stop.

Soon after the class-fight the upper classes promulgated an edict forbidding us to wear corduroy pants about the campus after the following Monday "Corduroy Monday," as it is now known. Of course, we got the worst of the scrap as we were outnumbered three to one, but we put up a game fight, and the only corduroys taken off and destroyed were those which our class members had "borrowed" from some unlucky Sophomores.

During the balance of the term we have been occupied in "passing up" the hard work allotted to us, and we think we have done fairly well.

We like the School of Mines.
We like the Professors and their assistants.
We like the town of Rolla.
We like the girls of Rolla.
We like the upper classmen and
We even like our sworn enemies, the Sophs, fairly well.

And during the balance of this year and in the years to come we shall do all we can for the glory of old M. S. M.

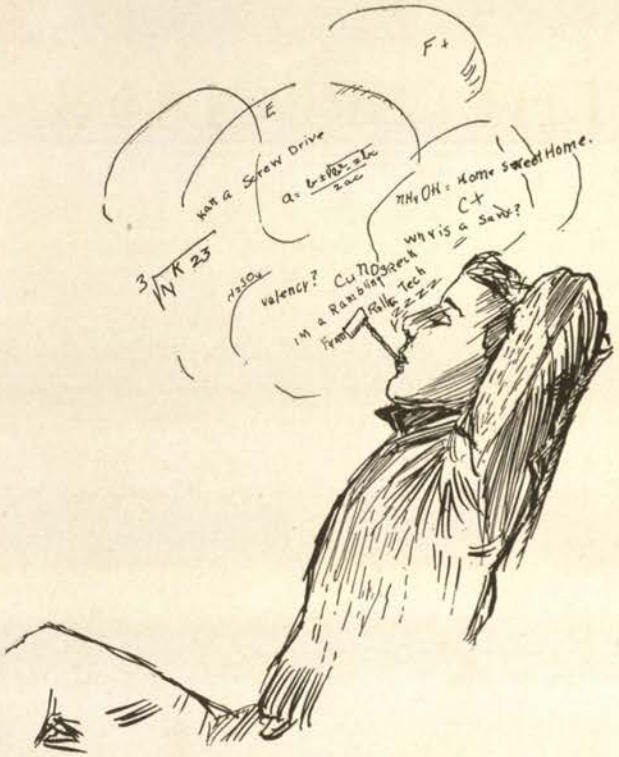
FRESHMEN

Allen, Robert Sexton Kansas City, Missouri.
Aycock, Robert Vaughn Lebanon, Missouri.
Blake, Frank Orris, Jr. Pittsburg, Pennsylvania.
Blaylock, Daniel Webster Flat River, Missouri.
Bryant, Albert Daly Washington, D. C.
Bunten, James Canon City, Colorado.
Burdick, Charles Adrain Dansville, New York.
Butcher, Jacob C. San Francisco, California.
Clark, William Newton Jewell City, Kansas.
Chew, Lindell St. Louis, Missouri.
Connelly, Harry Wade Independence, Kansas.
Detweiler, Alfred Nicks Drynob, Missouri.
Detweiler, Milan Harrison Drynob, Missouri.
Dye, Robert Emmet Joplin, Missouri.
Dykes, Guy Rolla, Missouri.
Diaz, Emilio Santiago de Chile.
Elliott, Joseph Walter Haileyville, Ind. Territory.
Farrar, Monroe Mattoon, Illinois.
Forman, John Kavanaugh McFall, Missouri.
Frazer, Keith Colt Lyndenville, New York.
Gregory, Clay, Jr. Joplin, Missouri.
Goldman, Jay Maurice St. Louis, Missouri.
Gosrow, Ralfe Cleveland Buffalo, New York.
Harris, Walter Salt Lake City, Utah.
Harrison, James Berry, Jr. Rolla, Missouri.
Harrison, Walter Edward Salem, Missouri.
Humphrey, Brighton W. St. Louis, Missouri.
Hurwitz, Jacob Mordecai St. Louis, Missouri.
Insley, Earl Frank Kansas City, Missouri.
Jobes, Charles Taylor Kansas City, Missouri.
Jones, William Hamilton St. Louis, Missouri.
Karte, Anton Desoto, Missouri.
Killian, Alfred Robert Perryville, Missouri.
Lay, Beele Nathaniel Denver, Colorado.
Lembcke, Robert North Dakota.
List, Elmer Cape Girardeau, Missouri.
McDonnel, George Henry Crown King, Arizona.
McNutt, Vachel Harry Monroe City, Missouri.
Mellor, Frederick Liberal, Missouri.
Miller, Christian R., Jr. Sedalia, Missouri.
Minor, Harmon Edwin Canon City, Colorado.
Morgan, Allan Ray Dearborn Rolla, Missouri.
Morrison, Emory Lee Auxvasse, Missouri.
Nachtman, Ralph Collistus Junction City, Kansas.
Newton, Lloyd Charles Gurdon, Arkansas.
Ormsby, Robert Graham Kansas City, Missouri.
Owen, Harvey Skidmore St. Louis, Missouri.
Park, Albert Plattsburg, Missouri.
Pierce, Colwell Arba Kansas City, Missouri.

FRESHMEN—Continued.

Porth, Harry William Lee Kansas City, Missouri.
Porri, Louis Joseph St. Louis, Missouri.
Riede, Frederick Edward Canon City, Colorado.
Rohrer, Walter Elmer South McAlester, Ind. Ter.
Seitz, Harrold Moore St. Louis, Missouri.
Seltzer, Hymen Aaron Kansas City, Missouri.
Smith, Duncan Slater Rockport, Illinois.
Smith, Harvey Edeson St. Louis, Missouri.
Smith, Van Hoose Little Rock, Arkansas.
Stewart, John Sloane, Jr. Mansfield, Ohio.
Thornberry, Martin Harmon Wanda, Missouri.
Tomlinson, Edward Lorraine Prescott, Arizona.
Townsend, Richard Henry Aspen, Colorado.
Traughber, Charles Centralia, Missouri.
Treuting, Frank Lewis Bridgeport, Connecticut.
Trowbridge, Welles Edward Springfield, Illinois.
Twyman, George Thomas, Jr. Independence, Missouri.
Vogt, George O. Davenport, Iowa.
Vogt, John Gerhard, Jr. Trenton, Illinois.
Wiseman, Edward Wallace Washington, D. C.





Two a.m. the morning of the finals.
– The Dream of a Freshie.

D. C. JACKLING, B. S. '92

Vice-President of Utah Copper Co.

To his interest in the Rollamo is due, in great measure, its success.



D. C. JACKLING, B. S. '92

"An E. M. in the Making"

(A Memory)

A mining student on his summer vacation,
Went out West to follow his chosen vocation;
He applied at a mine
(Quite above timberline),
And there secured a temporary location.

Throughout the long day, by aid of pick and shovel,
Small boulders of ore, gangue and waste he did hustle,
'Til he nearly died
From "ricks" in his side;
And knots, so it seemed were tied in every muscle.

In the bunkhouse, graybacks o'er him did steal;
Thru' his blankets, pine slivers he could feel.
But most painful of all
Was that codfish ball
Which had constituted all his evening meal.

In a drift face, a hole he was ordered to drill
(His knowledge of drilling was practically nil);
A blow he missed,
Blow broke his wrist—
With every known "cuss-word" the pain he tried to kill.

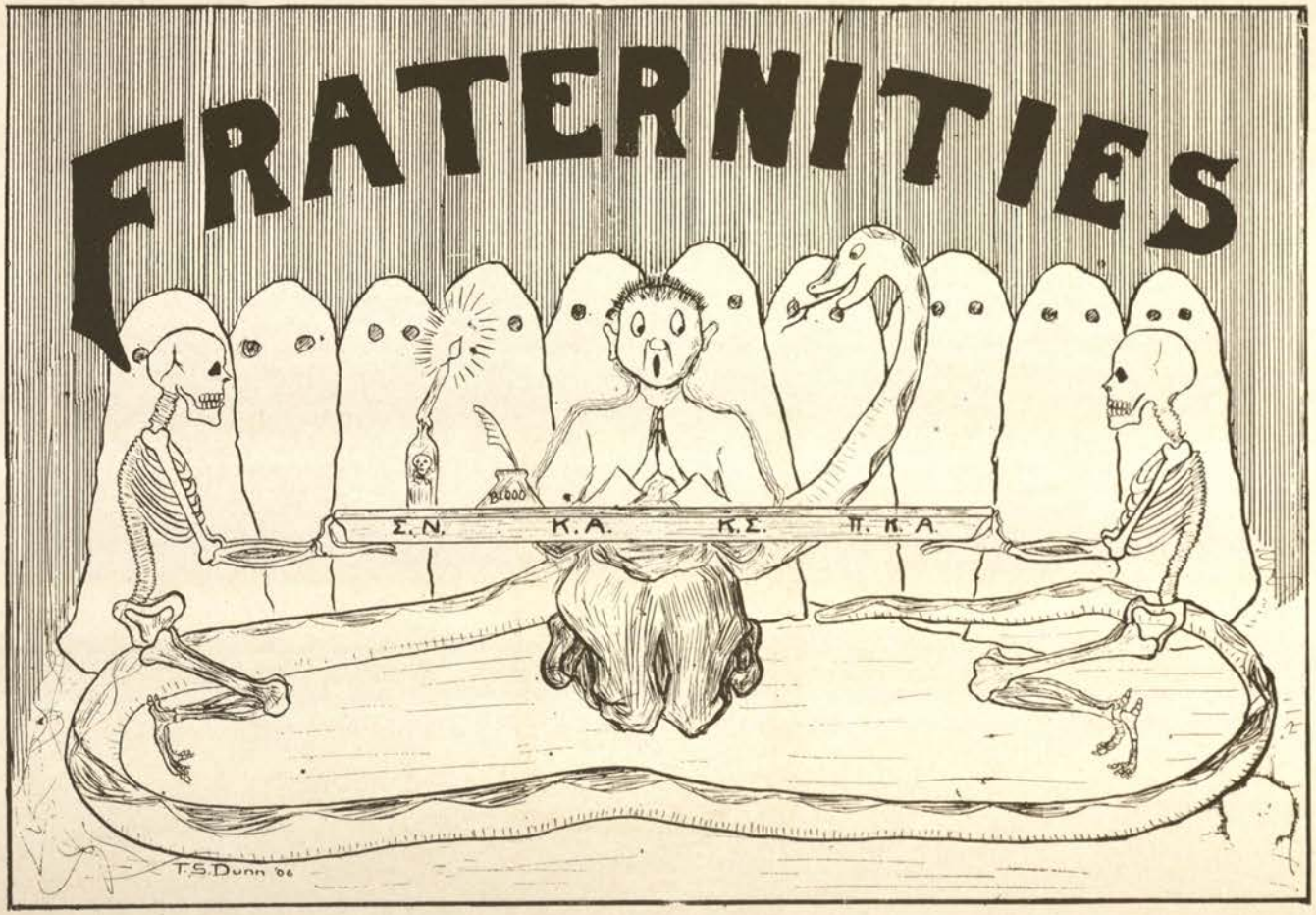


In the drill hole he inserted a blast,
Said act came nearly being his last.
Just two inches of fuse
Did this idiot use—
Two weeks he remained in a hospital bedfast.

Now the Union eyed his earnings slim;
To join them, he said the chances were very dim,
'Til a .45 colt
Gave him a jolt
After which he joined with considerable vim.

To drill-helper was his first promotion—
To supply powder to driller was his portion;
He dropped his light
In the dynamite
And thereby caused a profound commotion.

After washing the rocks of parts of the dead,
The foreman rose in his wrath and to him said,
"You just 'skidoo'
Way back to Mizoo
And there let them pound some sense into your head."


FRATERNITIES
BLOOD
Σ. N.
K. A.
K. Σ.
Π. K. A.
T. S. Dunn '06



Gamma Xi of Sigma Nu

INSTALLED JANUARY 23d, 1903

COLORS:

White, Gold and Black

FLOWER:

White Rose

YELL:

Hi rickety hoop de doo
What's the matter with Sigma Nu?
Hullabaloo
Terragahoo
Ausgeseichnet
Sigma Nu

Sigma Nu

CHAPTER ROLL

RUCKER, R. F.....1906
STEVENS, J. V.....1906
DUNKIN, D. D.....1906
BEDFORD, R. H.....1906
MAPES, HAROLD T.....1906

LADD, HOWARD W.....1907
BAKER, ARNOLD G.....1907
WASH, EDWIN R.....1907
BLAND, JOS. R.....1907

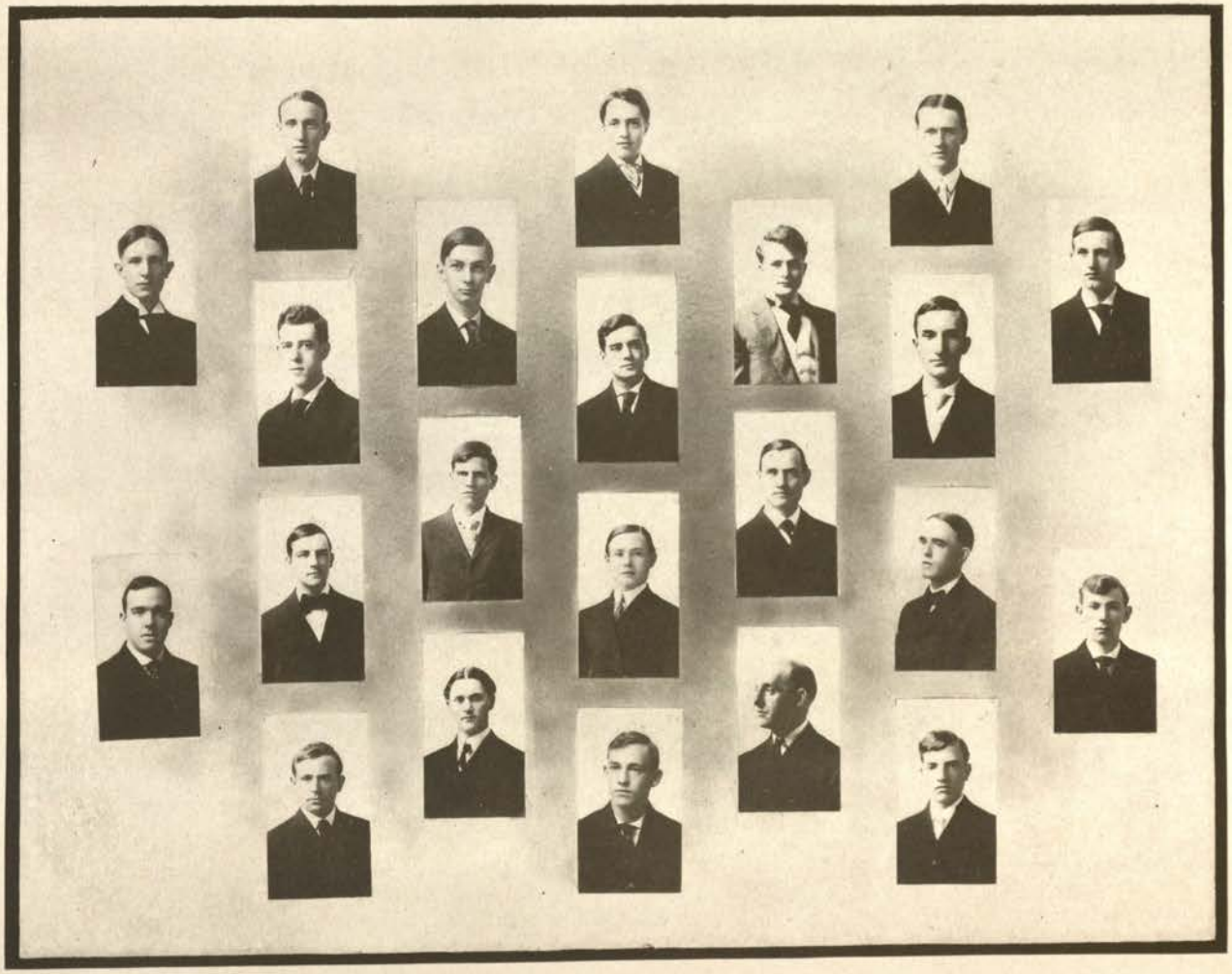
WISHON, A. EMORY.....1908
CARROLL, HARRY N.....1908
FINAGIN, JOS. C., JR.....1908
SANDFORD, JOHN JOS.....1908
WALKER, LELAND R.....1908

HALL, WM. S.....1909
COMPTON, J. CRAWFORD.....1909
DOUGHERTY, JAS. W.....1909
WATSON, RALPH W.....1909
CLARKE, WM. D.....1909

HARRIS, WALTER T.....1910
TWYMAN, GEO. T.....1910
BLAKE, FRANK O.....1910

FRATRES IN URBE

Brettner, Otto L.
Lyneman, Felix A.



Twyman
Harris

Sandford
Watson
Bedford
Hall

Clarke
Dougherty
Wishon

Wash
Baker
Carroll
Blake

Bland
Rucker
Dunkin

Mapes
Walker
Ladd
Finagin

Compton
Stevens



SIGMA NU HOUSE



ELLIOTT PHILA

KAPPA ALPHA

Organized 1865 at Washington and Lee University

The following is a clipping from the Rolla Herald Democrat of April 30th, 1903.

"Last Monday night, April 27, 1903, the Kappa Alpha fraternity was instituted at the School of Mines and Metallurgy. C. T. Jackson, assisted by W. E. Smith, both of the University of Missouri at Columbia, performed ceremonies incident to making the following gentlemen true and loyal K. A.'s:

R. E. Armstrong.
J. J. Brown.
A. I. D'Arcy.
J. W. Draper.
W. P. Hatch.
E. C. Heck.
P. K. Horner.
C. M. Laizure.
J. H. McCarthy.
K. V. Moll.
Chas. G. Wrisberg.

The following list comprises the initiates, active and alumni, of Beta Alpha. In addition to these are a number of sister members (honorary),

Robert S. Allen.
G. S. Anderson.
R. E. Armstrong.
W. A Baueris.
Jno. M. Brooks, Jr. (Trans)
J. J. Brown, Jr.
J. K. Christopher.
D. E. Clune.
R. A. Conrads.
T. G. Cooke.
A. I. D'Arcy.
R. H. DeWaters.
J. W. Draper.
J. C. Draper.
Geo. A. Easley.
E. A. Guntly.
W. P. Hatch.
E. C. Heck.
P. K. Horner.
M. S. Humphreys.
D. P. Hynes.
C. L. Johnson.
H. A. Johnson.
C M. Laizure.
P. B. Leming.
J. H. McCarthy, Jr.
R. F. McRae.
K. V. Moll.
L. J. Ney.
J. B. Pfeiffer.
B. Richards.
J. S. Root.
E. O. C. Smith.
Chas. S. Sollars.
A J Taussig.
A. A. Thomas, Jr.
G. C. Vogt.
F. L. L. Wilson.
C. E. Wrisberg.

KAPPA ALPHA

BETA ALPHA CHAPTER

FRATER IN FACULTATE

JAMES CLARK DRAPER, Professor of Mining

FRATRES IN COLLEGIO

'07

Frank Lewis Leonard Wilson
Roy Hayward De Waters
William Peter Hatch

'08

Thomas Grant Cooke
Horace Asabel Johnson
Hector George Sylvester Anderson
Dibrell Pryor Hynes

'09

Rowe Francis McCrae
William Albert Baueris
John Baptist Pfeiffer
Paul Buchanan Leming

'10

George Clark Vogt
Robert Sextan Allen
Duncan S. Smith

COLORS: Crimson and Old Gold

FLOWERS: Red Rose and Magnolia



Guntly Johnson Armstrong DeWaters Clune Allen Cooke Vogt
Horner Leming
Easley Wilson Draper Hatch Hynes
Anderson Thomas Brooks Baueris McCrae Root Pfeiffer

KAPPA ALPHA

ESTABLISHED 1865

ACTIVE CHAPTERS

Alpha.—Washington and Lee Univ., Lexington, Va.
Gamma.—University of Georgia, Athens, Ga.
Delta.—Wofford College, Spartanburg, S. C.
Epsilon.—Emory College, Oxford, Ga.
Zeta.—Randolph-Macon College, Ashland, Va.
Eta.—Richmond College, Richmond, Va.
Theta.—Kentucky State College, Lexington, Ky.
Kappa.—Mercer University, Macon, Ga.
Lambda.—University of Virginia, Charlottesville, Va.
Nu.—Alabama Polytechnic Institute, Auburn, Ala.
Xi.—Southwestern University, Georgetown, Texas.
Omicron.—University of Texas, Austin, Texas.
Pi.—University of Tennessee, Knoxville, Tenn.
Sigma.—Davidson College, Davidson, N. C.
Upsilon.—University of North Carolina, Chapel Hill, N. C.
Ph.—Southern University, Greensboro, Ala.
Chi.—Vanderbilt University, Nashville, Tenn.
Psi.—Tulane University, New Orleans, La.
Omega.—Central University of Kentucky, Danville, Ky.
Alpha Alpha.—University of the South, Sewanee, Tenn.
Alpha Beta.—University of Alabama, University, Ala.
Alpha Gamma.—Louisiana State Univ., Baton Rouge, La.
Alpha Delta.—William Jewell College, Liberty, Mo.
Alpha Zeta.—William and Mary College, Williamsburg, Va.
Alpha Eta.—Westminster College, Fulton, Mo.
Alpha Theta.—Kentucky University, Lexington, Ky.
Alpha Kappa.—University of Missouri, Columbia, Mo.
Alpha Lambda.—John Hopkins University, Baltimore, Md.
Alpha Mu.—Millsaps College, Jackson, Miss.
Alpha Nu.—The George Washington Univ., Washington, D. C.
Alpha Xi.—University of California, Berkley, Cal.
Alpha Omicron.—University of Arkansas, Fayetteville, Ark.
Alpha Pi.—Leland Stanford, Jr., University, Stanford, Cal.
Alpha Rho.—West Va. University, Morgantown, W. Va.
Alpha Sigma.—Georgia School of Technology, Atlanta, Ga.
Alpha Tau.—Hampden-Sidney College, Hampden-Sidney, Va.
Alpha Upsilon.—Univ. of Mississippi, University, Miss.
Alpha Phi.—Trinity College, Durham, N. C.
Alpha Chi.—Kentucky Wesleyan Univ., Winchester, Ky.
Alpha Omega.—N. C. A. & M. College, Raleigh, N. C.
Beta Alpha.—Missouri School of Mines, Rolla, Mo.
Beta Beta.—Bethany College, Bethany, W. Va.
Beta Gamma.—College of Charleston, Charleston, S. C.
Beta Delta.—Georgetown College, Georgetown, Ky.
Beta Epsilon.—Delaware College, Newark, Del.
Beta Zeta.—University of Florida, Gainesville, Fla.
Beta Eta.—University of Oklahoma, Norman, Okla.
Beta Theta.—Washington University, St. Louis, Mo.

ALUMNI CHAPTERS

Alexandria, La.
Anniston, Ala.
Asheville, N. C.
Atlanta, Ga.
Augusta, Ga.
Baltimore, Md.
Baton Rouge, La.
Boston, Mass.
Canal Zone.
Charlotte, N. C.
Charleston, W. Va.
Chattanooga, Tenn.
Centerville, Miss.
Columbia, Ga.
Dallas, Texas.
Franklin, La.
Griffin, Ga.
Hampton, Newp't News.
Hattiesburg, Miss.
Houston, Tex.
Huntington, W. Va.
Jacksonville, Fla.
Jackson, Miss.
Jonesboro, Ark.
Kansas City, Mo.
Knoxville, Tenn.
Lexington, Ky.
Little Rock, Ark.
Los Angeles, Cal.
Louisville, Ky.
Macon, Ga.
Memphis, Tenn.
Mobile, Ala.
Montgomery, Ala.
Muskogee, Ind. Ter.
Nashville, Tenn.
Natchitoches, La.
New Orleans, La.
New York City.
Norfolk, Va.
Oklahoma City, Okla.
Petersburg, Va.
Philadelphia, Pa.
Pittsburg, Pa.
Raleigh, N. C.
Richmond, Va.
San Francisco, Cal.
Savannah, Ga.
Selma, Ala.
Shreveport, La.
Spartanburg, S. C.
St. Louis, Mo.
Staunton, Va.
Tallahassee, Fla.
Talledega, Ala.
Tampa, Fla.
Thomasville, Ga.
Washington, D. C.
Wilmington, N. C.



KAPPA ALPHA HOUSE

KAPPA SIGMA

FOUNDED 1400
Established in America 1867

ROLL OF CHAPTERS

DISTRICT 1

Psi.....University of Maine
Alpha Rho.....Bowdoin College
Beta Kappa New Hampshire College
Gamma Epsilon.....Dartmouth College
Alpha Lambda.....University of Vermont
Gamma Delta.....Massachusetts State College
Gamma Eta.....Harvard University
Beta Alpha Brown University

DISTRICT 2

Alpha Kappa.....Cornell University
Gamma Zeta.....New York University
Gamma Iota.....Syracuse University
Pi.....Swarthmore College
Alpha Delta Pennsylvania State College
Alpha Epsilon.....University of Pennsylvania
Alpha Phi.....Bucknell University
Beta Iota.....Lehigh University
Beta Pi.....Dickinson College

DISTRICT 3

Alpha Alpha.....University of Maryland
Alpha Etta.....George Washington University
Zeta.....University of Virginia
Eta.....Randolph Macon College
Mu.....Washington and Lee University
Nu.....William and Mary College
Upsilon.....Hampden Sidney College
Beta Beta.....Richmond College

DISTRICT 4

Delta.....Davidson College
Eta Prime.....Trinity College
Alpha Mu.....University of North Carolina
Beta Epsilon...North Carolina A. and M. College
Alpha Nu.....Wofford College

DISTRICT 5

Alpha Beta.....Mercer University
Alpha Tau.....Georgia School of Technology
Beta Lambda.....University of Georgia
Beta.....University of Alabama
Beta Eta.....Alabama Polytechnic Institute

DISTRICT 6

Theta Cumberland University
Kappa.....Vanderbilt University
Lambda.....University of Tennessee
Phi.....Southwestern Presbyterian University
Omega.....University of the South
Alpha Theta.....Southwestern Baptist University

DISTRICT 7

Alpha Sigma.....Ohio State University
Beta Phi.....Case School of Applied Science
Beta Delta.....Washington and Jefferson College
Beta Nu.....Kentucky State College

DISTRICT 8

Alpha Zeta.....University of Michigan
Chi.....Purdue University
Alpha Pi.....Wabash College
Beta Theta.....University of Indiana
Alpha Gamma.....University of Illinois
Alpha Chi.....Lake Forest University
Gamma Beta.....University of Chicago
Beta Epsilon.....University of Wisconsin

DISTRICT 9

Beta Mu.....University of Minnesota
Beta Rho.....University of Iowa
Alpha Psi.....University of Nebraska

DISTRICT 10

Alpha Omega.....William Jewell College
Beta Gamma.....Missouri State University
Beta Sigma.....Washington University
Beta Chi.....Missouri School of Mines
Beta Tau.....Baker University
Xi.....University of Arkansas
Gamma Kappa.....University of Oklahoma

DISTRICT 11

Alpha Upsilon.....Millsaps College
Gamma.....Louisiana State University
Sigma.....Tulane University
Iota.....Southwestern University
Tau.....University of Texas


ΚΣ

DISTRICT 12

Beta Omicron.....University of Denver
Beta Omega.....Colorado College
Gamma Gamma.....Colorado School of Mines

DISTRICT 13

Beta Zeta.....Leland Stanford, Jr., University
Beta Xi.....University of California

DISTRICT 14

Beta Psi.....University of Washington
Gamma Alpha.....University of Oregon
Gamma Theta.....University of Idaho

KAPPA SIGMA

ALUMNI CHAPTERS

Boston, Buffalo, Ithaca, New York, Danville, Lynchburg, Norfolk, Richmond, Washington, Concord, Durham, Kinston, Atlanta, San Francisco, Little Rock, Pine Bluff, St. Louis, Jackson, Miss., New Orleans, Runston, Portland. Birmingham, Mobile, Chattanooga, Covington, Jackson, Tenn., Memphis, Nashville, Vicksburg, Waco, Yazoo City, Denver, Salt Lake City, Los Angeles, Louisville, Pittsburg, Chicago, Milwaukee, Indianapolis, Fort Smith, Kansas City,

KAPPA SIGMA

BETA CHI CHAPTER

ESTABLISHED DECEMBER 19, 1903

FRATRES IN FACULTATE

ELWYN LORENZO CLARKE.

⚜

FRATRES IN UNIVERSITATE

SENIORS

VICTOR H. HUGHES. HARRY G. SMITH.
WALTER C. RICHARDS.

* *

JUNIORS

ALBERT H. SHAW. G. FRED KELLOGG.
CLYDE R. WOOD. FRANK W. HUGHES.

SOPHOMORES

BENJAMIN H. DOSENBACH. DAVE OLIN.

* *

FRESHMEN

THOMAS B. ELTON. EARL F. INSLEY.
HARRY L. PORTH. LINDELL CHEW.
RALFE C. GOSROW.

* *

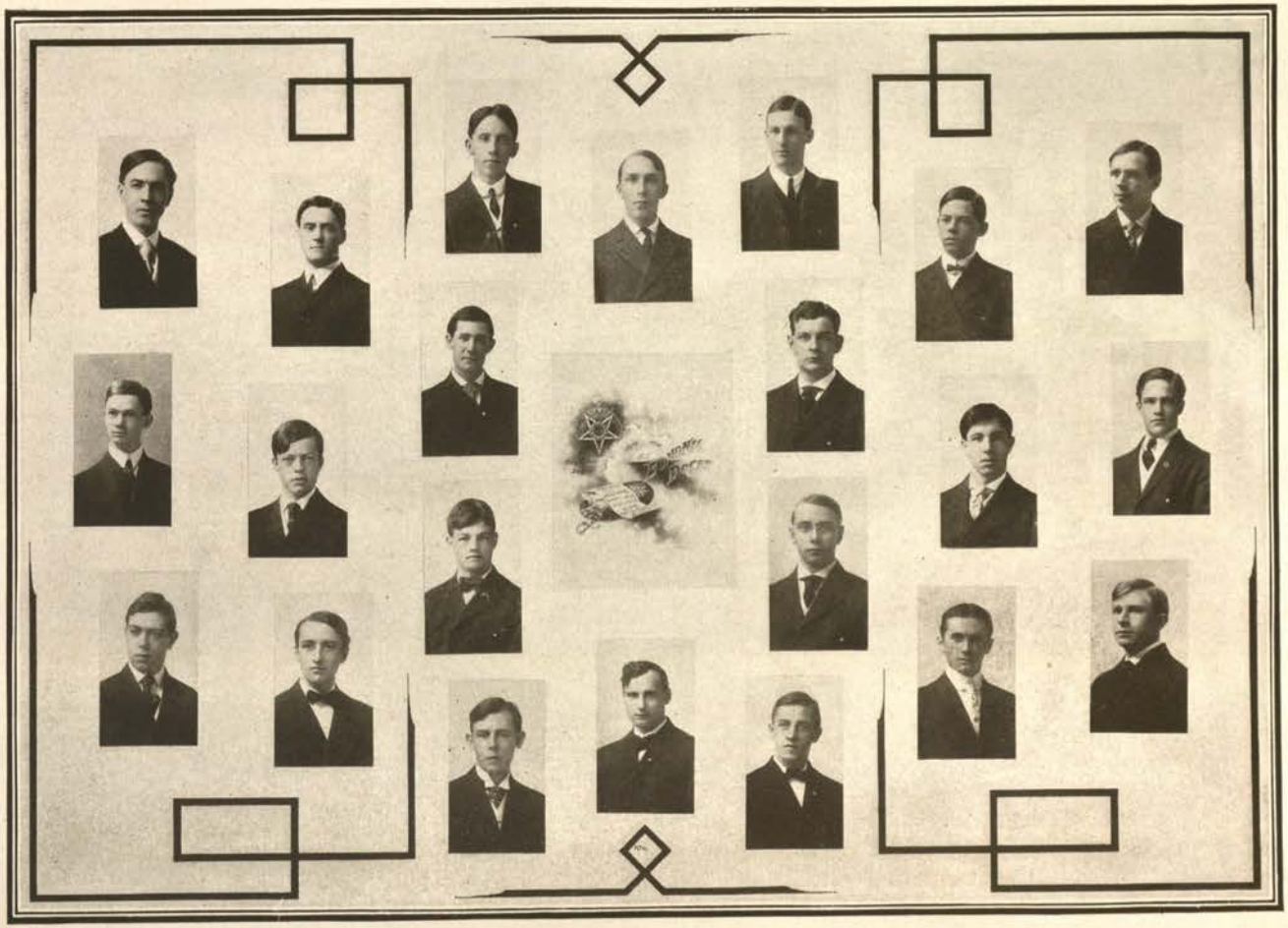
COLORS

CRIMSON, WHITE AND EMERALD GREEN.

* *

FLOWER

LILY OF THE VALLEY.



Hughes
Wright
Kellogg

Willson
Dosenbach
Porth

Barnard
Lavin
Olin
Insley

Evans
Chew

Hartzell
Magoffin
Richards
Gosrow

Smith
Shaw
Wood

Pearsall
Elton
Clarke



KAPPA SIGMA HOUSE


ΠΚΑ

Pi Kappa Alpha Fraternity

FOUNDED MARCH 1st, 1868
ALPHA KAPPA INSTALLED DEC. 2d, 1905

Official Organ—
Shield and Diamond

Official Flowers—
Tulip and Lily-of-the-Valley

Colors—
Garnet and Gold

Secret Publication—
Dagger and Key

PI KAPPA ALPHA

ROLL OF MEMBERS

CLASS '07

WILLIAM ARTHUR McTIGHE.
ANDREW JACKSON SELTZER.
IRA LEE WRIGHT.

CLASS '08

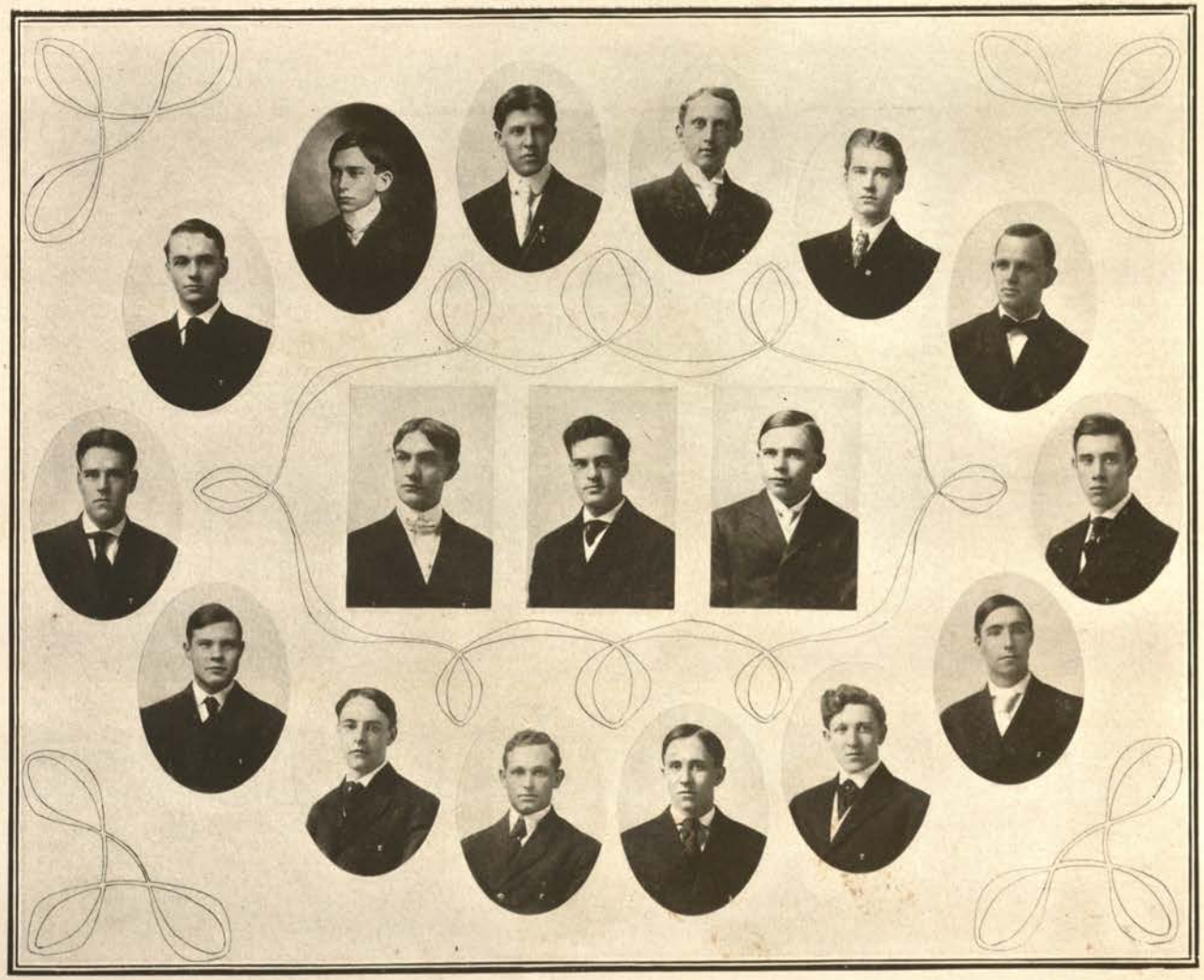
CLARENCE FRANK FLOOD.
HORACE THARP MANN.
KARL RUPERT MORGAN.
EDWIN PHELPS MURRAY.
JAMES A. TAGGART.

CLASS '09

FRED GOODRICH BECKNER.
THEODORE SAUNDERS DUNN.
JAY MAURICE GOLDMAN.
ROBERT THOMAS KENDRICK.
WILLIAM D. PEESO.

CLASS '10

BERLE NATHANIEL LAY.
HARMON EDWARD MINOR.
HARVEY SKIDMORE OWEN.
HARVEY EDSON SMITH.
JOHN GERHART VOGT, JR.



Dunn Beckner Vogt Taggart Seltzer Minor Mann McTighe Goldman Morgan Wright Smith Murray Lay Flood Owen Kendrick


ONE



WE came into this world naked and bare;
We go through this world full of trouble and care;
We go out of this world to God only knows where,
We'll be good fellows here—we'll be thoroughbreds there.



WISH

BILLY

BILL

AL'

NEMO


PIN MEN
OF
ΘNE
ONE

TAU BETA PI

HONORARY ENGINEERING FRATERNITY

"To mark in a fitting manner those who have conferred honor upon their Alma Mater by a high grade of scholarship as undergraduates, or by their attainments as alumni; and to foster a spirit of liberal culture in the Technical and Scientific Schools of America."

Founded at Lehigh University, 1885

ROLL OF CHAPTERS

Alpha of Pennsylvania..... Lehigh University.
Alpha of Michigan..... Michigan Agricultural College.
Alpha of Indiana..... Purdue University.
Alpha of Illinois..... University of Illinois.
Alpha of New Jersey..... Stevens Institute of Technology.
Alpha of Wisconsin..... University of Wisconsin.
Alpha of Ohio..... Case School of Applied Science.
Alpha of Kentucky..... State College of Kentucky.
Alpha of New York..... Columbia University.
Alpha of Missouri..... University of Missouri.
Beta of Michigan..... Michigan College of Mines.
Alpha of Colorado..... Colorado School of Mines.
Beta of Colorado..... University of Colorado.
Beta of Illinois..... Armour Institute of Technology.
Beta of New York..... Syracuse University.
Gamma of Michigan..... University of Michigan.
Beta of Missouri..... Missouri School of Mines.

TAU BETA PI

Missouri Beta Chapter

Established December 21, 1906

CHAPTER ROLL

Fratres in Facultate

GEORGE EDGAR LADD,
AUSTIN LEE McRAE,
GEORGE REGINALD DEAN,
LEON STACY GRISWOLD,
VICTOR HUGO GOTTSCHALK,
LEON ELLIS GARRETT,
JAMES CLARK DRAPER,
ELWYN LORENZO CLARKE.

FRATRES IN UNIVERSITATE

Charter Members

ELDON EVERETT COOK, '07.
VICTOR HARMAN HUGHES, '07.
WALTER COFFRAN RICHARDS, '07.
JOHN PAYNE SEBREE, '07.
EDWIN RICHARD WASH, '07.
F. LEWIS LEONARD WILSON, '07.
IRA LEE WRIGHT, '07.
HORACE THARP MANN, '08.

Initiates, 1907

ALBERT BABBITT BARTLETT, '07.
PAUL RICHARDSON COOK, '07.
GEORGE SYLVESTER ANDERSON, '08.
WARD BARR MIX, '08.



Sebree
Hughes

Mann
Cook

Clarke

Wilson
Richards

Wash
Wright


YMCA

The Young Men's Christian Association of the Missouri School of Mines has for its object the development of the spiritual and social side of the student life. To that end, we have with the aid of friends, fitted up two attractive rooms on the Campus, which are open to the students daily during the school hours. The regular meetings are held weekly, some of which are given over to lectures on popular subjects, by members of the faculty, while others are given up to religious topics exclusively. After the meeting, the rooms are used for boxing, wrestling, reading or playing games, according to the inclination of those present.

The Association is already planning for larger things and is looking forward to a time when it will own a building, by means of which the work can be increased above that allowed by its present accommodations.

Y. M. C. A. OFFICERS

W. I. Phillips, President.
R. R. Benedict, Vice-President.
A. Park, Secretary.
W. C. Perkins, Treasurer.

Y. M. C. A. MEMBERS

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R. R. Benedict.
E. E. Cook.
P. R. Cook.
R. C. Ham.
W. C. Perkins.
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P. A. Phillipi.
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F. A. Moore.
J. C. Radovich.
D. P. Hynes.
D. F. Don.
M. A. Boyes.
J. W. Scott.
W. Dobbins.
E. P. Barrett.
P. S. Judy.
J. D. Harlan.
J. P. Sebree.
S. Storthz.
W. E. McElroy.
A. Van Smith.
M. H. Detweiler.
E. L. Tomlinson.
H. K. Forman.
A. Park.
D. W. Blaylock.
M. Sedivy.
K. C. Fraser.
C. Pierce.
E. List.
W. E. Harrison.
R. V. Aycock.
A. N. Detweiler.
E. Wander.
Victoriano Elicano.
William M. Holm.
V. H. McNutt.
R. H. Townsend.
F. Nachtman.
D. S. Smith.
F. L. Treuting.
M. H. Thornberry.

Clubs

GRUBSTAKERS

x x x

W. G. BAILEY, President.
R. R. BENEDICT, Vice President.
C. HAUSER, Treasurer.
W. H. JONES, Secretary.

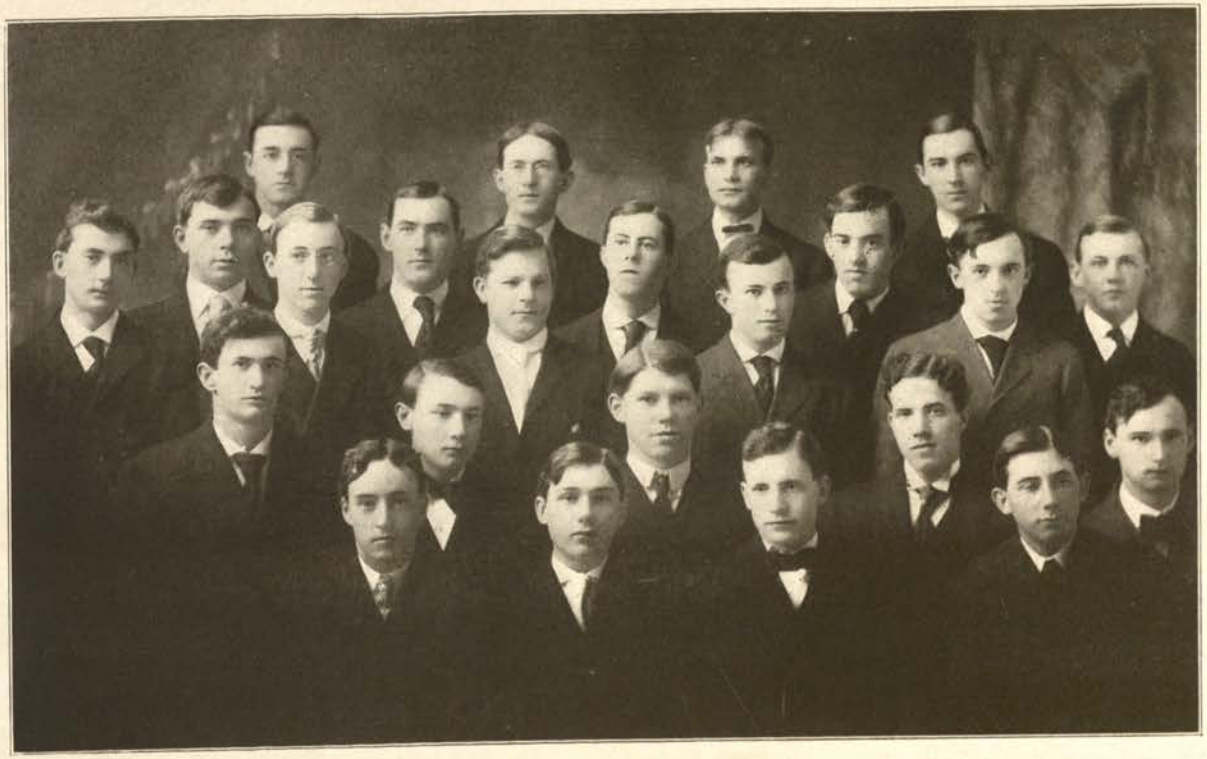
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E. P. BARRETT.
W. G. STAHL.
A. L. NYE.
L. J. PHILLIPS.
R. L. DRAKE.
R. G. ORMSBY.
J. C. LONG.
WM. McELROY.

O. E. KLOCKMANN
L. CHEW.
C. L. FRENCH.
P. S. JUDY.
F. R. LOVERIDGE.
D. W. BLAYLOCK.
C. T. JOBES.
C. A. PIERCE.

W. E. BROWN.

GRUBSTAKERS



Spofford Hauser McElroy Phillips
Jobes Brown Pierce Ormsby Bailey
Ham Klockmann Stahl Nye Loveridge
Benedict Drake Barrett Jones Chew
Blaylock French Long Judy

LUCKY STRIKE

OFFICERS

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J. T. VITT, Secretary.

E. E. COOK, Purchaser.

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E. E. COOK.
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J. K. FORMAN.
MILES SEDIVY.
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ELMER LIST.
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M. H. DETWEILER.
PAUL COOK.
A. B. BARTLETT.

LUCKY STRIKE



P. Cook
Forman
Miller
Clarke
Sebree
Cook
A. Detweiler
M. Detweiler
Dobbins
Phillips
Fraser
Seitz
Vitt
Clark
List
Perkins
Aycock
Sedivy
Sunada
Bartlett

INTERNATIONAL CLUB

TALWAR, President.
India.

A. M. SHAH, Russia.
R. ESPRIU, Mexico.
H. ZIRULICK, Russia.
E. CAVAZOS, Mexico.
C. VALENCIA, Mexico.
A. GARZA, Mexico.
R. PALAMORES, Mexico.
V. ELICANO, Philippines.
J. T. E. ERICSON, Sweden.
S. SUNADA, Japan.
E. DIAZ, Chili.



Diaz Elicano Shah Cavazos Garza Espriu Palamores Ericson Valencia Sunada Talwar Zirulick

NICKNAMES

Stewart	"Urchin"
Trowbridge	"Cap"
Baueris	"Billy"
Wishon	"Wish"
Harrison	"Freshie"
Humphrey	"Chicken"
Tseung	"Dock"
Wright	"Andy"
Hauser	"Mother"
Hynes	"Pickles"
Baker	"C. C."
Wander	"Count"
McRae	"Buss'
Gardner	"St. Louis Kid"
Dosenbach	"Dusenberry"
Clarke	"Bud"
Carroll	"Irish"
Anderson	"Pet"
Stahl	"Arkansaw"
Simington	"Diamond Dick"
Shaw	"Monk"
Radovich	"Pete"
Morgan	"Pierpont"
Mix	"Tubby"
Holm	"Windy"
Gibbons	"Scissors"
Ericson	"Yon"
Wright	"Whiney"
Spofford	"Spof"
Seltzer	"Bromo"
Sebree	"Sea Breeze"
McElroy	"Mack"
Klockmann	"Dutch"
DeWaters	"H_2O."
Baker	"Buzzy"
Hartzell	"Topsy"
Guntley	"Germany"
Grether	"Scotty"
Dunkin	"Baldy"
Bedford	"Chuck"
Armstrong	"Dick"
Hall	"Heine"
Ladd	"Hob"
Thornhill	"Tubby"
Gregory	"Flip"
Lyneman	"Nemo"
Langsdale	"Langy"
Morgan	"Rube"
Hurwitz, Seltzer	"Gold Dust Twins"
Barrett	"Red"
Beckner	"Slivers"
Boyer	"Booger"
Magoffin	"Bosco"
Wilson	"Jake"
Lavin	"Duke of Wellington"
Elton	"Grandma"
Boland	"Early Birdie"
Goldman	"Goldie"
Moore	"Father"
Wash	"Dicka da Wash"
Wolf	"Mose"
Drake	"Indian"
Nye	"Heads and Tails"
Jones	"Chinaman"
Phillips	"Wise Guy from the East"
Brown	"Mr. O. Brown"
Watson, Harris	"Hall Room Boys"

EXPLANATION AND REQUEST

When the Rollamo addressed a circular letter to the Alumni, the statement was made that this year's book would contain a directory of former students. However, in view of the fact that about 70 per cent of the circular letters were returned unclaimed, it was very evident that to make the directory of any value would necessitate a complete revisal. As this was entirely out of the question in the time left before the issue of the book, it was decided to omit the directory from this issue and make an earnest effort to aid in revising it for the next year's book.

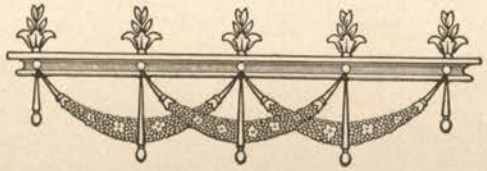
We sincerely regret not being able to fulfill the promise made in our circular letter, but felt that any attempt to include a directory in this issue would be valueless and unsatisfactory to all parties concerned.

However, we wish to render all possible aid to succeeding editors of the Annual and to this end we ask your co-operation in the revision of the directory.

Kindly answer the following questions and mail to the Librarian of Missouri School of Mines:

1. Name;
2. Years in School;
3. Degree;
4. Present position;
5. Address.

In addition to the above, kindly send any information concerning other former students of whom you know the name and address.



THE ROLLAMO

This issue of a Year Book of the Missouri School of Mines represents the spirit which has long existed in our midst and which found expression when earnestly considered by a few of those who seek her welfare.

A Board of Editors was organized in September, 1906. Our faith in the project enabled us to see that M. S. M. could produce an elegant Annual. Our first object was to interest the school in the work and we met ready support.

Mr. D. C. Jackling generously aided the Board by a gift of $100.00 which is greatly appreciated by every one.

It has been more of a task than we anticipated, but the extra work has been full of interest for us and ofttimes a source of pleasure.

There are mistakes in this book; we regret them, and have at all times made a conscientious effort to avoid them.

The Board decided to dedicate the first issue to Dr. Ladd and are very much indebted to him for his interest in, and support of the work.

Dr. McRae gave us many valuable suggestions besides writing the School history. We are also greatly obligated to Miss Heller for the work she has done for the book.

We owe acknowledgement to the following for articles in this issue:

Prof. Griswold.....Scenes Around Rolla.
E. L. Clarke.....Miscellaneous.
A. B. Bartlett.....Senior Class History.
L. J. Phillips.....Junior Class History.
W. S. Hall.....Sophomore Class History.
H. E. Smith.....Freshman Class History.
R. R. Benedict.....Junior Trip, 1906.
A. P. Fellows.....Birmingham Trip.
J. M. Goldman.....Foot Ball.
F. L. L. Wilson.....Base Ball.
B. J. Snyder.....Sketch of Freshman Lab.

E. L. Clarke, Vic Hughes, "Windy" Holm, and A. L. Pollard are responsible for the poetry in this issue.

The authorship of the roasts is a dark and mysterious secret forever buried in the hearts of the Rollamo Board.

The following are the Rollamo artists:

W. C. Richards.....Decorations of the Senior pictures.
T. S. Dunn.....Titles; he has more drawings in the book than any one else.
K. R. Morgan..... Cartoons.

We owe a great deal to W. E. Trobridge for his untiring efforts in our behalf.

The Board will never forget the services of Mr. Frederic B. Wieners of the Barnes-Crosby Company. His enthusiastic interest in our work went far towards making it a success.

To the Faculty and the student body, the Board extends its thanks for their interest and encouragement.

Staff of the Rollamo

D. P. HYNES, Editor-in-Chief

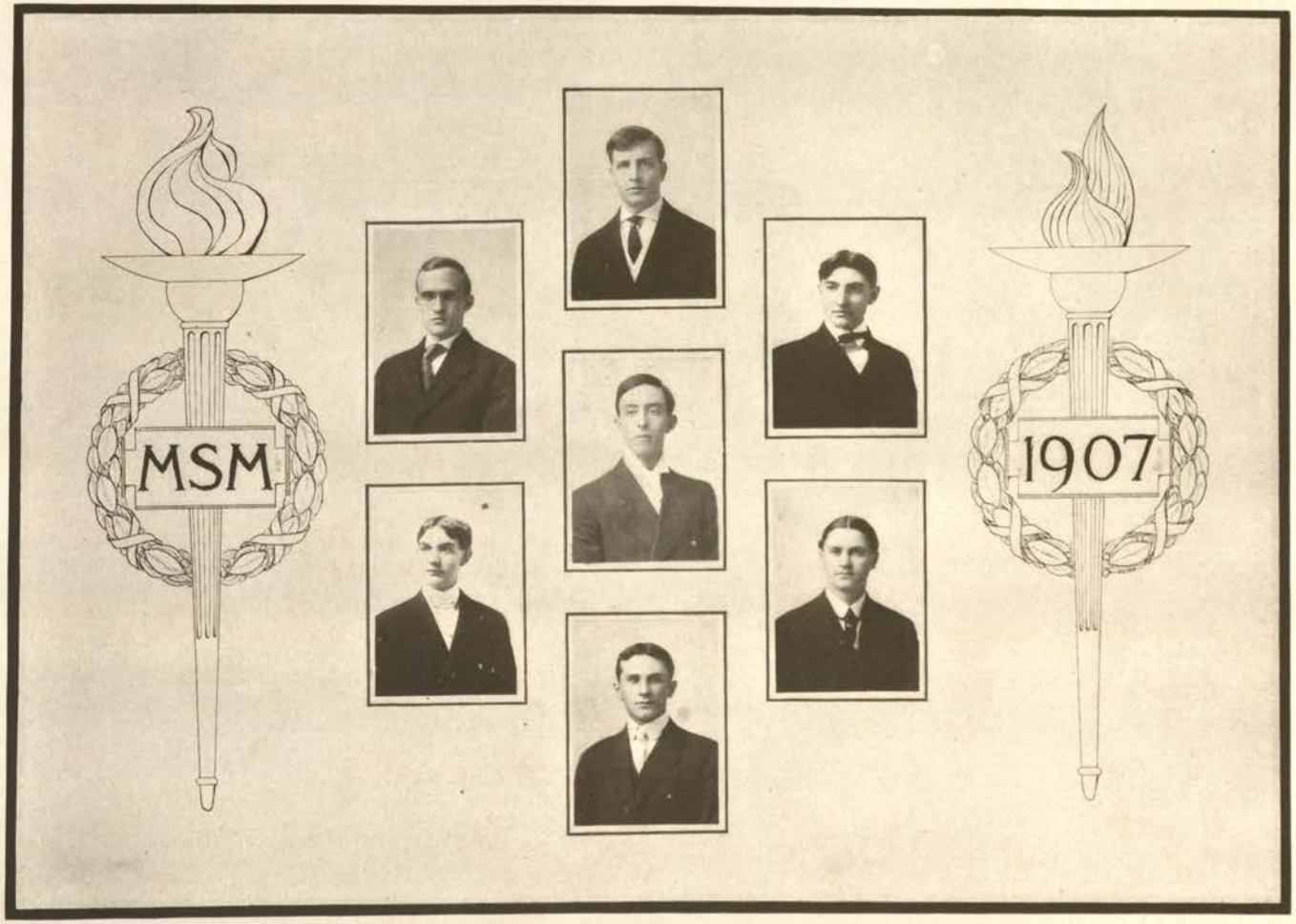
Board of Editors

V. B. HINSCH
G. H. BOYER
F. A. MOORE
C. R. WOOD

Associate Editors

A. J. SELTZER
A. E. WISHON

THE ROLLAMO BOARD



G. H. Boyer
A. J. Seltzer

V. B. Hinsch
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C. R. Wood

F. A. Moore
A. E. Wishon

Missouri School of Mines Athletic Association

E. F. BOLAND, Physical Director.

B. J. SNYDER, President.
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C. R. WOOD, Treasurer.
A. FELLOWS, Secretary.

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A. EMORY WISHON, Manager.

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W. G. BAILEY, Manager.

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G. H. BOYER, Captain.
V. B. HINSCH, Manager.

Manager
A. E. WISHON.

Ass't Manager
C. R. WOOD.

Captain
H. G. SMITH.

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GOLDMAN	R. E.
HOLM	R. T.
CHEW	R. G.
NICOLS	C.
LYNEMAN	L. G.
THORNBERRY	L. T.
DRAKE	L. E.
SMITH	Q. B.
STAHL	R. H.
GREGORY	L. H.
MORGAN	F. B.

SUBSTITUTES

WORL	R. T.
BARRETT	C.
SANDFORD	L. G.
HECK	L. T.
SEITZ	L. E.
LONG	Q. B.
OLIN	R. H.
E. ELLIOTT	R. H.
J. ELLIOTT	L. H.
BLAKE	F. B.



FOOTBALL



Seitz Long Stahl Barrett Boland Lyneman Gregory Holm Smith Thornberry Blake Wishon Chew Goldman Nicols Drake Elliott

FOOTBALL

1904

The team of "1904" won the intercollegiate championship of the State, and thus the record of the team speaks its own praises. At the start of this season the team had excellent prospects as it was composed mostly of veterans. The schedule was a heavy one, but all the men worked hard, the result being that they carried the eagles of victory upon their shoulder pads, and trounced Shurtleff, Springfield Normal, held Vanderbilt and Drury and defeated Arkansas by a narrow margin, and won the championship from C. B. C. by a score of 54 to 0.

1905

"1905" was not so fortunate in its string of victories. The team was handicapped by the loss of veterans, and the new men on the team lacked experience. But in spite of this the conscientious work of the coach and men enabled the team to have a successful season.

1906

Two days after school opened for the fall term of 1906, forty men appeared on the football field in moleskins. The candidates certainly looked good, and the air was fraught with excitement and speculation, for prospects of a winning team were great.

The first game of the season was played with Missouri University at Columbia, and the fact that the Tigers had six weeks' practice to the Miners' one, told against us. After this game the team lost heavily through injuries and men leaving school, consequently the team practically started the season new.

The first home game was played against Battery "A." Although outweighed ten pounds per man, the Miners, by the use of their snappy work and spectacular forward passes, defeated the artillerymen.

It is with pride that we speak of the work of the Miners against the St. Louis U. For the first ten minutes of play, the Miners held the St. Louis U. for downs. The heavy St. Louis beef, experience and training, however, told on the Miners.

At Cape Girardeau, we experienced a run of hard luck. The Miners fumbled at an inopportune time and the Normals were quick to take advantage.

At Drury, the Miners played the game of the season. It was hard fought and close from beginning to end, the first half showing 0 to 0. During the second half, Drury made every effort to score, as did the Miners. We blocked their trick plays and forwarded passes so well that the spectators thought we knew Drury's signals. A blocked forward pass, however, decided the final game of the season for Drury.



THE MERRY GAME
OF
FOOT BALL.

Baseball Squad 1906

Captain
T. F. QUINN.

Manager
T. D. SAMUELS.

Ass't Manager
F. L. L. WILSON.

TEAM

Second Base B. H. DOSENBACH
Catcher W. D. PEESO
Pitcher J. GRAVES
First Base F. L. L. WILSON
Short Stop H. G. SMITH
Right Field R. L. MOOK
Center Field R. F. McRAE
Left Field R. L. DRAKE
Third Base T. F. QUINN

SUBSTITUTES

W. G. STAHL.
O. E. KLOCKMAN.
E. J. WOLF.

1906 SCHEDULE

APRIL 16.

Rolla 2
Fairmont 11

APRIL 17.

Rolla 9
Fairmont 11

APRIL 28.

Rolla 15
Springfield Normal 7

MAY 9.

Rolla 3
M. S. U. 9

MAY 17.

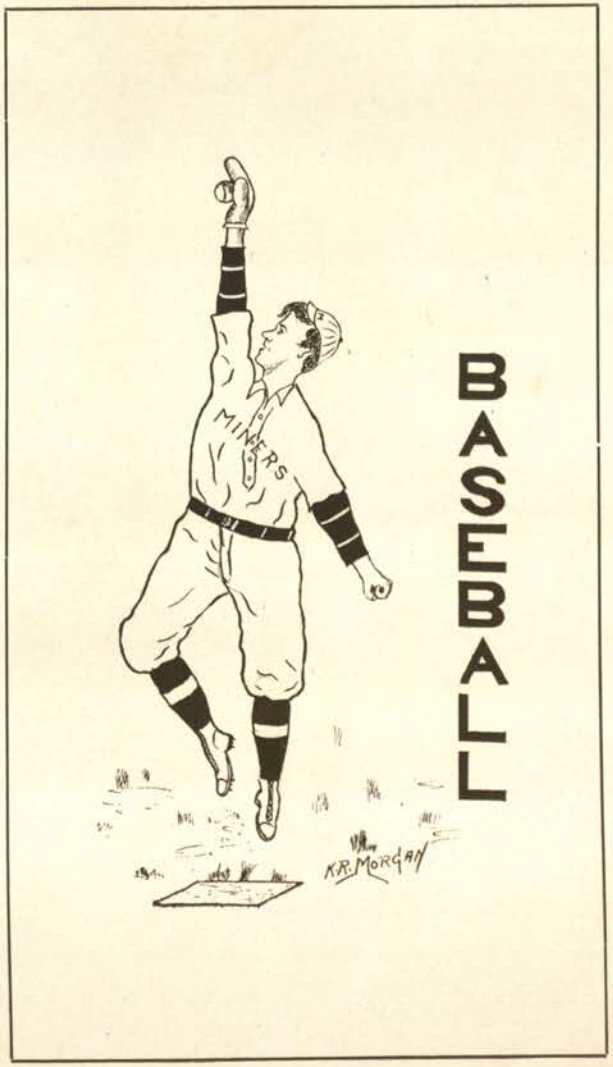
Rolla 12
Cape Girardeau 13

MAY 18.

Rolla 11
Cape Girardeau 4

TOTAL.

Rolla 52
Opponents 55





Graves Wilson Stahl Mook Boland
Dosenbach Peeso McCrae
Drake Smith Quinn Wolf Klockmann

BASEBALL

Recreative exercise must go hand in hand with mental culture in order to bring about a perfect system of education. To baseball is largely due the growth of athletic games in general, as it is the one sport above others which is so well adapted for use by the students in colleges as well as public schools. It is full of excitement, fascinating, and requires manly courage, pluck, and mental ability to a considerable degree.

With the approach of those warm sunny April days, how eagerly the eyes of the lovers of athletics are directed toward the baseball diamond.

The game has been in existence fifty years, and in that time has made wonderful progress. "From 'one old cat' on the town common to a scope that now requires millions of capital to conduct, legislation enough to run a government to regulate its rules, and thousands of people directly interested in it as a business, is its record of half a century of effervescent life."

In the past years M. S. M. has had exceptionally strong teams, especially so when we consider the small number to choose from, the little time available for practice because of so much laboratory work every afternoon, and the lack of training quarters for indoor work which forbids any practice till warm enough to permit outdoor practice.

Playing schools and colleges having two to ten times as many candidates to choose from, with all the necessary training quarters, time, and gymnasium, it is surprising to note that M. S. M. has held her own with a majority of them. It is with pride that we can look back to such old stars as Cummins, Graves, Draper, Rush and Nesbit.

Having to depend last year almost entirely on new material we did not meet with our usual success as our schedule will show.

Our schedule last year was a small one, due partly to the lateness of arranging it; but judging from the correspondence this year, we feel assured that our hustling manager, Bill Bailey, will have the finest schedule M. S. M. has ever had.

So far it is too early to make any predictions for the coming team. We are in hopes that some good material will not only be found in the large Freshman class, but will also show up in the Inter-Frat. games as well as the class games which are planned for early in the season.

THE ATHLETES

Who are the leaders of every day life?
From where come the winners of uneven strife?
Who have the courage to play the great game
And lead the vanguard of fortune and fame?

Why, the eight-eighty men, why do you ask,
They're the fellows who attempt any task.
When stern duty calls, they're the first to the front,
And not a one falters when asked for a "stunt."

Take a look backward, think of the past;
Trace the strong workers, the men who've held fast.
Look up their records; see how they've wrought;
You'll find their names written where athletes are taught.

Those who hold records, no matter what kind,
Are such as hold muscle coequal with mind.
The call comes for courage, and the man who endures
Is the man who has conquered, whose strength reassures.

Our pride is unbounded in men that are game,
To get into harness and try to win fame;
For the glory and honor of the loved M. S. M.
They've labored for her as she has for them.

And we have the metal with just the right ring,
To don the light armor and face anything;
Our boys are the gamest who never say die,
Who take any odds and make a brave try.

And Rolla's no laggard when moleskins are due;
Her portion is always pure stuff and true.
The Miners make good when put to the test,
For they are the timber, as good as the best.

And any who labor to set our name high,
Has done us great service if it's but a small try.
Him shall we honor and joy in his deed;
To him be all glory, he helped in our need.

TRACK TEAM

MANAGER
W. W. GARRETT.

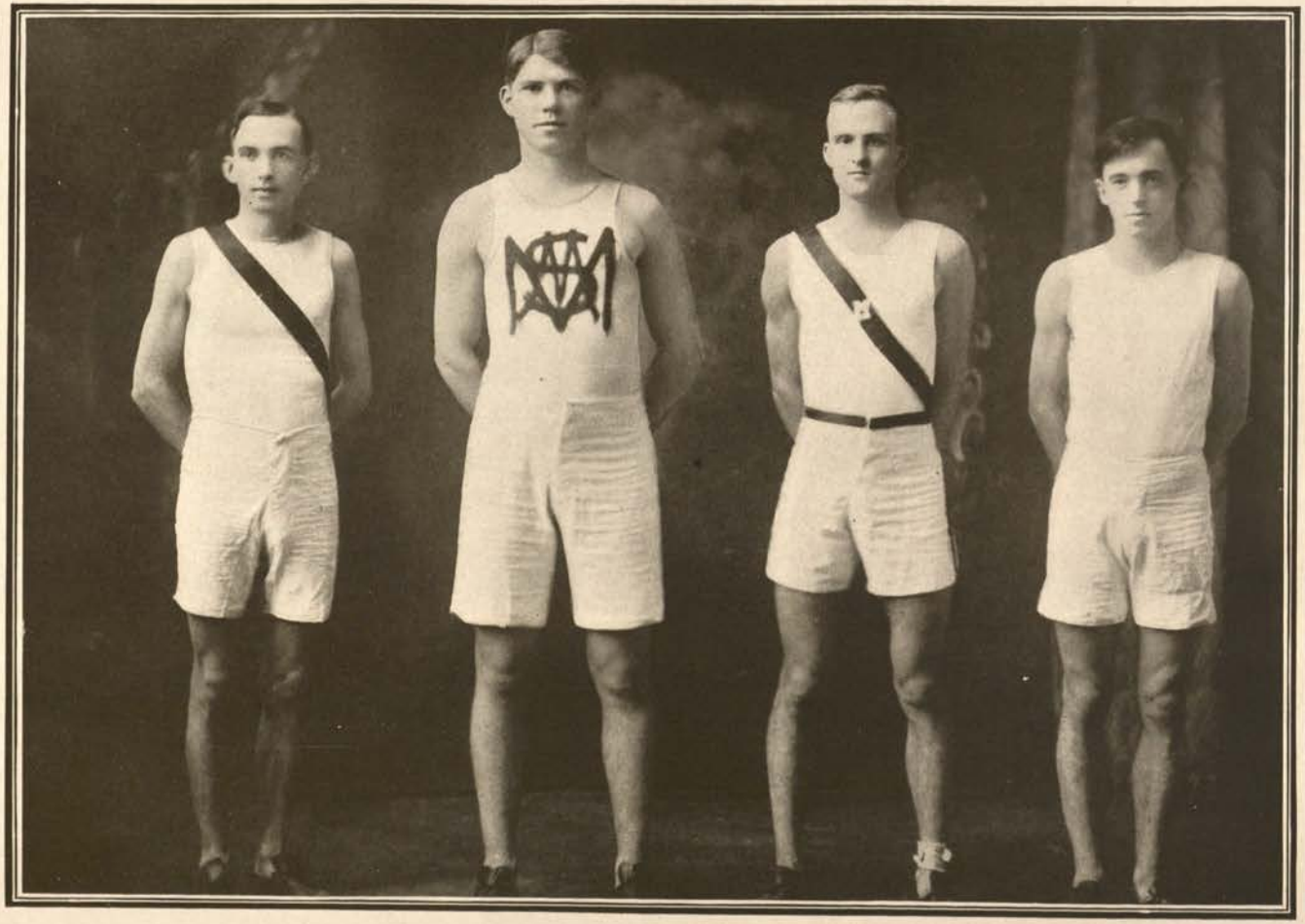
ASSISTANT MANAGER
G. H. BOYER.

CAPTAIN
E. P. BARRETT.

JOHN GRAVES..... '06
R. H. DeWATERS..... '07
H. C. HASE..... '07
R. C. HAM..... '07
F. T. BOYER..... '08



V. B. HINSCH '08
E. P. BARRETT..... '08
G. H. BOYER..... '08
F. R. LOVERIDGE..... '09
D. OLIN '09



DeWaters Barrett, Capt. Boyer Loveridge

Track Athletics



Track and field sports have always held an important place in the athletic programme of M. S. M. Many a field day was run off on the old quarter-mile track that encircled the football field. Occasionally a team was sent to St. Louis to compete for the State championship on C. B. C.'s campus with varied success, as each man directed his own training. It remained for Prof. W. W. Garrett who Captained at Boston Tech. to put athletic sports on a firm basis. With the aid of some enthusiastic students he constructed a level and well-banked track, and two good jumping boxes. Although this track is small, when once a runner solves the turns he can make very fast time

About this time the requirements for a track "M" were raised from one to five points.

In the Spring of 1905, Mr. Garrett turned out the best track team that up to that time had defended our athletic honor. A few picked men were sent to St. Louis to compete in the S. W. I. A. A. meet and secured two seconds and two thirds against the pick of the Southwestern athletes.

A week later the Kansas University came to Rolla for a dual track meet and while they defeated us, considering their greater strength and experience, we did exceedingly well to win two firsts and seven seconds. Hoffman, Wilfley and Graves distinguished themselves in this meet.

Mr. A. A. Thomas was elected captain of the 1906 team. In January 1906, Mr. Thomas left for Alaska, leaving the team to begin the season without a captain. Considering that he had the timber of a ten second man it was a serious blow for M. S. M. Mr. E. P. Barrett, who is a consistent performer with the weights, was elected captain.

The annual field day which was won by the Sophomores brought out some promising new men in Loveridge, Olin, Hinsch, F. T. and G. H. Boyer, while Graves, Barrett, Wilson, De Waters, and Hase performed in their old style.

Then followed two weeks of hard training when the team met Washington University at Rolla. From the crack of the gun for the start of the hundred yard dash until the finish of the mile run, the result of the meet was in doubt, first Washington, then the Miners having the lead in points, but Washington finally won fifty-five to forty-nine. Considering that Rolla had to forfeit the pole vault (eight points) and that Graves lost second place in the low hurdles from a hard fall, the Miners really had the best of the meet.

Pan Hellenic Baseball League of M. S. M.

This was instituted in the Spring of 1906. A beautiful silver cup is the much coveted prize. To obtain permanent possession of the cup one Fraternity must hold it for three successive years. The Inter-Frat games with their sharp rivalry and great number of funny blunders made the whole town merry for weeks.

Kappa Sigma won the cup last year.

1906 SCHEDULE.

	Games Played.	Won.	Lost.	Percentage.
Kappa Sigma	3	3	0	100
Kappa Alpha	3	2	1	66
Sigma Nu	3	1	2	33
Pi Kappa Alpha	3	0	3	0

Kappa Sigma.. 6	Kappa Alpha...44	Kappa Sigma ...19
Kappa Alpha... 5	Pi Kappa Alpha 8	Sigma Nu..... 4
Kappa Alpha...10	Pi Kappa Alpha 5	Kappa Sigma... 8
Sigma Nu..... 5	Sigma Nu..... 7	Pi Kappa Alpha 6

BASEBALL "M"

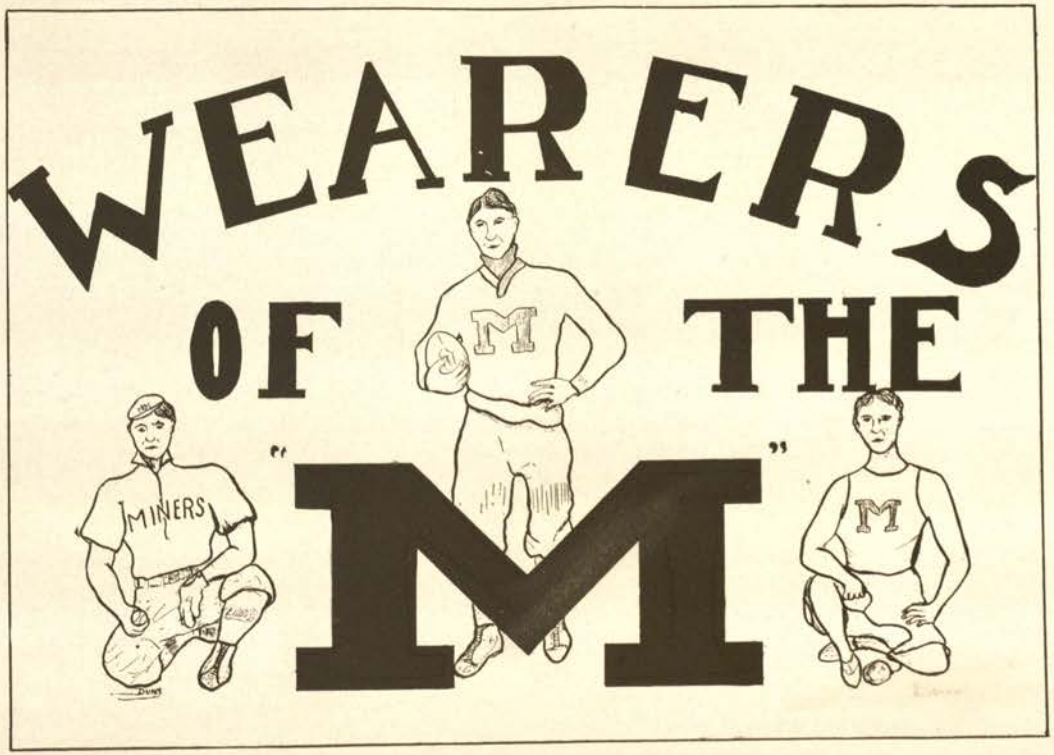
JOHN GRAVES '06
F. L. L. WILSON..... '07
T. F. QUINN..... '07
H. G. SMITH..... '07
W. G. STAHL..... '08
R. L. MOOK..... '08
W. D. PEESO..... '09
B. H. DOSENBACH..... '09
R. DRAKE '09

FOOTBALL "M"

H. G. SMITH..... '07
W. G. STAHL..... '08
C. A. NICOLS..... '09
R. L. DRAKE..... '09
J. M. GOLDMAN..... '10
M. H. THORNBERRY... '10
L. CHEW '10

TRACK "M"

JOHN GRAVES '06
R. H. DeWATERS..... '07
F. T. BOYER..... '08
E. P. BARRETT..... '08
G. H. BOYER..... '08
F. R. LOVERIDGE..... '09



BASKETBALL

Early in the school year a meeting was held by the students interested in Basketball. At that meeting an association was formed and a committee appointed to draw up an amendment to the constitution that basketball be made one of the major college sports. Efforts were made to become part of the Athletic Association. These efforts were fruitless and other means had to be used to introduce the game.

A meeting was called to form a basketball league consisting of teams from the respective classes, and a schedule of games was arranged. The first games were played on Saturday night, January 17th, 1907. Filling in as it does the gap between football and Spring thletics this gives the college athletic games the whole year 'round.

M. S. M. will have a 'varsity basketball team next year. [And a Winner Too.]

LINEUPS OF THE INTERCLASS LEAGUE

	SENIORS.	JUNIORS.	SOPHOMORES.	FRESHMEN.
Guard,	Baker,	Stahl,	French,	Twyman,
Guard,	Phillips,	Sedivy,	Holmes,	Detweiler,
Center,	Phillipi,	Sanford,	Ohnsorg,	Porth,
Forward,	Long,	Nye,	Clark,	Gregory
Forward,	Bartlett.	Morgan.	Wolf.	Blake.

"SCENES AROUND ROLLA"

In the summer season when there is little activity about the School of Mines' campus the abundant accommodations of Rolla are open to many seeking relief from the hot and humid atmosphere of other localities. Besides the invigorating atmosphere, the summer visitor enjoys charming scenery and varied out-of-door entertainment. Mineral waters hereabouts are efficacious in many ills. The conditions which attract summer visitors prevail in general throughout the year and constitute an element of assurance for the good health of the student body. Eleven hundred feet elevation in a region generally lower is largely the cause of the beneficial climate, while there is enough high ground to the northward apparently to break the severity of cold winter waves. The position on the divide between the Gasconade and Meramec rivers guarantees good drainage and absence of malarial troubles.

Ideas of the general geography will be suggested by many views offered in this volume, but the plan can be illustrated nicely by the one overlooking the Gasconade river at Arlington, twelve miles away, a favorite locality for Sophomore Civil Engineering work. Here we are looking northward from a bluff of magnesian limestones, perhaps two hundred feet above the river. The fine bridge of the "Frisco" railroad appears like a tiny affair in the view, but the girders are thirty feet above the ordinary water stage, so that it is a rare flood can threaten the structure. The cultivated flood plain is about a half mile wide, and then rise the valley walls sharply to the elevation of our point of view. The sky line of our picture indicates that back from the valley bluffs the country holds about the same elevation—a plateau region with rolling surface rather sharply trenched by the draining streams. For the traveler, the scenery is most attractive; abundant outlooks over wide expanses of farms and forest lands from the rolling high grounds, and frequent plunges and scrambles across little valleys with clear streams of water from innumerable springs. The large portion of limestone in horizontal layers in the rock construction of the country favors greatly the gathering of rock waters in underground streams and the final emergence of these streams as springs of varying size. The abundance of forest area and broken country has preserved the game pretty well so that in the season the hunter has a fair show to return home after a day's outing with something besides an appetite; and the School of Mines' Professor occasionally profits by a surplus of good fortune in the student hunter's game bag. To others, and at other seasons, the fish, berries, fruits, nuts, mushrooms, and flowers add interest to rambles and drives.

In every direction the country is enjoyable, but of course there are places of special interest. By all odds the most notable is Meramec Springs, sixteen miles away. Here is a deep pool an acre in extent; the clear spring waters surge and boil to the surface. The pool is in a deep ravine rich in vegetation, which becomes much steeper and wilder at the head of the pool where boils up the water, while the great ledge above the spring has succumbed to weathering influences sufficiently to allow foot passage completely around the water with a considerable cave right at the most desirable spot. To rest in this mossy cave and watch the river of cool water rise from the ledges at one's feet is ideal, surely, on a summer day; and the observer can not fail to speculate somewhat upon the extent underground that these waters have been gathering; a surface drainage of similar volume



SCENES AROUND ROLLA



NATURE'S OWN CHARM AND BEAUTY.

would be a hundred square miles or more,—and what wonderful caverns and passages the water must flow through. The form of the ravine indicates that the roof of the underground channel has been falling in; thus slowly the lower course of the water has been exchanging darkness for daylight, and doubtless this process has revealed the stream clear down to the junction to Dry Fork—half a mile or more —where the real Meramec begins. Truly this is one of the greatest springs in the world and is worthy of becoming the center of a state park, though it is well cared for now by the sportsman club that has leased the country round about.

In the recent past this locality was a center of industry. Iron was mined within half a mile of it, furnaces were located here, the spring waters furnished power for air compressors, and for many years a profitable business was operated; but with a fall in the quality of the ore and diminution in the value of the product the works were abandoned. The ruins of mine, furnaces, and machinery now furnish valuable study material for successive classes of Mining Engineers.

One considerable iron mine, the Lenox, is now being operated about fourteen miles from Rolla, and other iron prospects and abandoned mines are available for study. South of Newburg and twelve miles from Rolla, are some lead and zinc prospects which offer interesting study though as yet not showing any large ore bodies.

The underground stream channels of the Meramec type occur often at a sufficiently high elevation so that exploration becomes possible. Eleven miles from town is a saltpetre cave. It is possible to follow up the main stream for perhaps two miles; and the junction with side streams, the forms of chambers and passages, the deposition of stalactites and stalagmites, cave deposits, and cave life all serve the purpose of good study material for students. The ruins about the mouth of the cave indicate that the roof falls from time to time just as it has at Meramec, and probably here again the whole stream valley down to the Gasconade river is the result of the falling of the cave roof over this stream and the wasting away of the fragments. The stream from Saltpetre cave is a little one, compared with Meramec. Several smaller caves nearer Rolla make interesting objective points for walks or rides, and along the Gasconade are many caves and great springs some of the latter boiling up from the bottom of the river.

The district is well adapted to elementary geological study for mining engineers. The great mass of rock foundation is Cambro-Silurian,—horizontal, or with slight folds or faults. Upon these strata are occasional patches of unconformable Carboniferous (?) sandstones and shales, the latter opened as clay pits. Cherts abound in great variety and the phenomena of silification and replacement are abundantly illustrated. Thus there are many simple problems at hand for field study, so that the student can be prepared at Rolla to undertake the more complicated work of the areas reviewed during the summer trip, in southeast Missouri and Joplin.



THE TRIP TO BIRMINGHAM

The party started for St. Louis in installments, the first section going Friday afternoon, December 21st, others following on every train, until Saturday evening, when the rear guard, comprising Bartlett and Pollard arrived. They were met at Union Station by Prof. Griswold and wife. Sebree, Cook and Fellows left for Carbondale, Illinois, on train No. 23, arriving there on the morning of the 23rd at 23 o'clock, where they ate a lunch and proceeded merrily onward toward Golconda, which is a beautiful seaport on the Ohio river, with two hotels and a bus. One hotel charges two dollars per day and the other doesn't. The members of the party stopped at the one that doesn't. The description of this same town is also famed in the U. S. G. S. Annals for Dykes of a Peculiar and Deferential Specie. However, for us they possessed the most eel-like habits. Nevertheless, we found a mine, a sill, a number of imposing river bluffs, a mistletoe, and a polluted Kentucky Colonel, who had crossed on the ice.

We then transferred our suitcases to the quarterdeck of the *John S. Hopkins*, and steamed up the turbulent Ohio against a heavy wind on the starboard-paddle-wheel side, but not until after having our pictures taken three times in rapid sequence by Bartlett as he stood on the quay.

It is twelve miles to Rosie Clair and the noble boat made several knots—(but slowly), most of the three hours being consumed in stopping and starting for such things as a drove of hogs, a cart of corn, a pound of butter or a tub of eggs.

At last land was sighted, the whistle whistled and almost immediately we were in Rosie Clair. During the afternoon we were clinging to the precipitous bluffs above the murky flood by our eyebrows and fingernails while we rescued fossils from a watery grave. (The grave was more or less antiquated.) Several were saved outright. A hoary old Bryozoan and a dainty little Brachiopod were the first. Next came the fierce Triarthrus which seemed more than contented where he was, a wee Favosites, etc., etc., etc.

After sleeping the sleep of the Just (just where is not mentioned) for the first time since leaving home, we early arose and proceeded happily in search of a flourite mine. Fortune was with us, and we examined those found with due care and respect, even descending into their uttermost depths. The general manager of one mine told us that his company was shipping this flourite at a profit but that their amortization fund was in the tailings pile in the form of ZnS.

The next day being Christmas eve, we sailed back to Golconda in a gasoline yacht. The journey following was very interesting from a purely negative standpoint, no food or sleep being noticed in that twenty-four hours, and it was at this stage that Sebree was greatly mortified on discovering that one of the ladies of a traveling minstrel show had exchanged suit cases with him. Words fail to describe their anguish.

Owing to the singular fact that the I. C. train was an hour late and the phenomenon of the Frisco being on time, we were permitted the pleasure of spending Christmas day in Holly Springs, a beautiful

THE TRIP TO BIRMINGHAM—Continued

southern town in the last stages of decrepitation. After having enjoyed looking at the Cretaceous formations, and the water tank, located on a high hill, we boarded the train for Birmingham. By virtue of the Frisco's hospitality, we were allowed to sleep in the cars six hours longer than scheduled while a wreck was being cleared away ahead of us. Upon our arrival in Birmingham, we dodged a corps of reporters who were awaiting our arrival, and immediately instituted a search for a cheap hotel. Right here, O! gentle reader, we received the Citrous Limonus of our entire experience.

The points of interest visited in and around Birmingham were:

The Sloss Sheffield Iron and Steel Company's Iron Mines near Bessemer, also near Gates City; their coal mines at Dolomite and at Bessemer, puddling furnaces and rolling mill, Gates City; brown stone quarries and quarries of road metal at the same place.

The T. C. I. & R. R. Co. own the most extensive interests in this section. We visited their iron mines at Bessemer, the coal mines and coke ovens at Ensley and at Pratt City; the furnaces and steel plant at Ensley, also their lime quarries north of Birmingham.

The geology of this section is of absorbing interest, owing to economic and structural peculiarities. Birmingham is located in a faulted and eroded anticline, bringing the Carboniferous into juxtaposition with the Silurian, which carries the iron and a dolomitic limestone which is used as flux. This iron ore is of low grade, and also basic, but owing to the size of the deposit, ease of working, concentrated location of all necessary raw materials and a ready market in the south for the finished product, together with cheap labor, Birmingham is destined to become a still greater manufacturing center.

A considerable portion of our time was spent examining the geological features of the district. We began by making a typical columnar section through about 18,000 feet, identifying the geological age when possible by fossils and otherwise by referring to the U. S. G. S.'s Reports. We studied out in detail several faults, one of which has an estimated displacement of 10,000 feet.

The method of ore deposition was also investigated. The coal fields offered numerous problems, several of which we were able to solve in our limited time.

Our side trip to Taladega took us through the various gradations of unmetamorphosed sediments to the older highly altered schists and marbles. Near Riddle's Mill are located the gold mines of the district, the ore being in lenticular quartz bodies following the planes of schistosity. In this vicinity, there is being quarried a fine grade of statuary marble, very close and even grained, of alabaster white as well as light gray. These quarries are especially well-equipped with modern machinery.

The County owns the plant for treating magnetite which is found in residual clay, and this is a fine example of an installation without proper consideration as regards ore reserve.

In the interim, our hostelry was being rifled by the Sheriff ably assisted by a zealous band of creditors. That night the electric lights were cut off, the following night the oil gave out and the fuel was exhausted; and in the morning it was found that the food was all consumed, nothing being left us for our 87½ cents a day but the balmy atmosphere of smoky Alabama.

That dear Rolla was a very pleasant sight in the dim twilight as we arrived safely home the afternoon of the fifth.

N. B.—The party as a whole, and individually, wishes to express its hearty appreciation to Professor Griswold for the kind interest he took in its behalf throughout the trip.

Corduroys

Rolla awakened one Saturday morning in October to find every gate post and signboard plastered with a bright green "proc." He who ran read:

Oh, Green and Verdant Freshmen

Ye lily-livered, lazy louts, spawn of slimy marshes. Ye suckling babes fed on Mellon's food.

Back to the jungles, to your Stinkstein and Limburgite, and seek the protection of your Pusillanimous, Putrescent, Asinine, Quadrumane Marsupial Progenitors, or Beware of a Hygienic, Antiseptic trip to Lake Frisco.

Observe the following commandments on pain of terrible torture and ghoulish inquisition.



I. Do not fish in the shower bath.

II. Do not smoke cigarettes on the campus.

III. Do not hunt (or shoot) "snipes" on the campus.

IV. Do not wear corduroy pants.

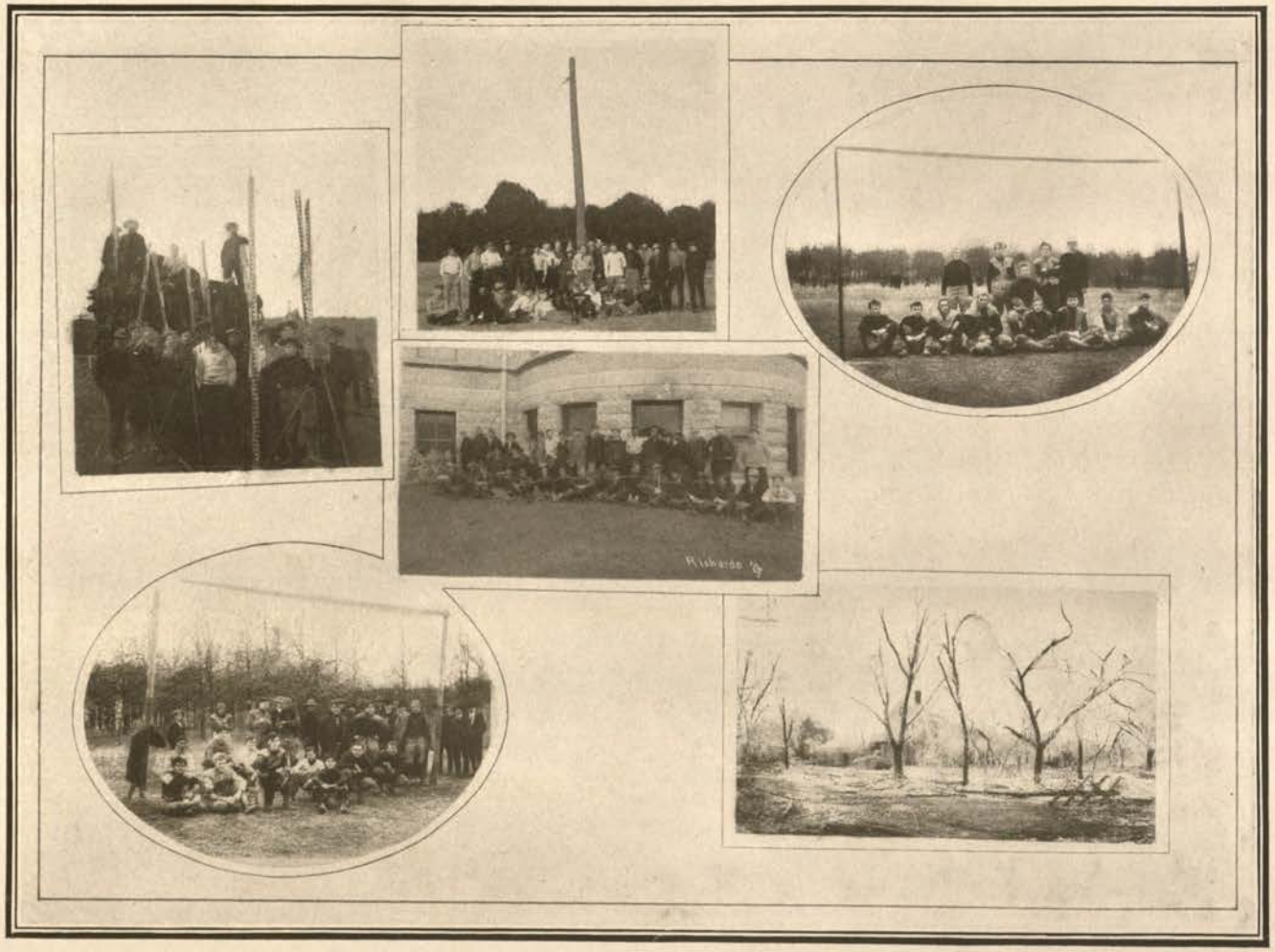
V. Do not roll hoops on the walks.

VI. Do not sit on the steps of Norwood Hall.

VII. Do not drink Hydrochloric Lemonade, bite glass tubing or blow out the gas. Note—Filter papers are for use in the laboratory only.

VIII. Honor thy Upper Classmen all the days of thy life, and the

SOPHOMORES



On Sunday morning following, the green "procs" were sharing their space with loud yellow ones like this:

Heed, Ye Gentle Sophomores

Ye of the Yellow-Streak and Frosted Pedal Adornments. Hearken ye unto this, the following proclamation of the victims of your ill-timed jests and your juggernauts of orthoepy.

Knowing full well that ye could never hope to alone enforce that brilliant and pusillanimous ostentation of erudite vacuity so lately published, you again proved your abject cowardice by soliciting the aid of that exalted body of nut-works and butters-in, the UPPERCLASSMEN.

Such convulsions of malformed convolution of gray matter (a trifle of which you have the nerve to claim to possess) as appeared in that vituperous and ignoble insult to the English vocabulary which pleased you to term "an edict," would not be deemed worthy of notice by your Lords and Masters, the class of nineteen ten, were it not for the fact that your presence is earnestly desired at the raising of their colors, on the morning of the 20th day of October, 1906, at 6:01 a. m.

Kindly appear at the time appointed, but for the love of the sport, dear gentlemen, leave your yellow streak and vile epithets at home.

BY ORDER OF THE FRESHMEN

CORDUROYS—Continued

At eight o'clock Monday morning, the Freshmen and Sophomores were engaged in an exciting melee, the chief purpose of which was to separate a freshman from his nether corduroys. The aggressors were the Sophs who carried on a strenuous fight, but now and then needed the assistance of an eager upper classman to reach a strangle hold on a muscular freshie in order to subdue his misguided efforts to defend his luckless corduroyed companions. At this point our reporter being exhausted from his unusual exercise, stopped to catch a breath which some one else had lost, caught sight (not Seitz, somebodys else had him) of a Prof. calling the roll from the window of Norwood Hall (not W. S. Hall) in order to mark all in the 8 a. m. class present.

Finally in a mad rush for the Metallurgy Building, Smith and Miller were gently forced to put their corduroys in soak. The corduroys were then used for an exhibit and one pair was passed around for souvenirs. It then became known that some Freshmen in Mechanical Hall were wearing corduroys and instantly a raid was made. Here operations were delayed by red tape. One attempt was made by some of the leaders to coax the Freshmen to leave their blocks for a few brief seconds. When these leaders came back to the crowd without the Freshmen or corduroys, they were met with something like: "That's pretty good, but I guess you'd better make anothuh." The Freshmen upstairs were panting for fresh air; somebody opened a window, the cold air struck their feet and they gave up their pants. However, this was probably not such a hardship on one of the Freshies as if he had given up his own corduroys—he had given up the other fellow's.

After an investigation to see where the joke should be placed, the march was resumed—just to be marching. Noisy Thornberry got Barrett's hand from his mouth long enough to suggest to the Freshmen that they perform the impossible feat of sitting on the steps of Norwood Hall. The Sophs said "nit" and got there first and all available Freshmen were held away from the steps. President McElroy then took the center of the entrance and made a short, but well-directed speech, beginning by calling for three cheers for Dr. Ladd, which were heartily given; then three cheers for the football team, and these came lustily, and then three for the Freshmen and all went black in the face with enthusiasm, for the Freshies had made good and no mistake. McElroy then called on the Sophs to grab the Freshmen, and direct them to paint out the yellow posters. (Cheers by the Sophs.)

The mill then started a fresh(ies) and after some scrimmages and the flight of some of the faint-hearted-but-fleet-footed (Boyer catching all whom he pursued), a cry for ropes went up and "Woody" then delivered the goods by "hog-tieing" in the approved style of his native sagebrush, all resisting Freshmen.

It was found that there was enough rope to make a continuous chain of 10, but before the march was started, the bunch was lined up and the Upper Classmen got many pictures. See elsewhere in this issue. The line and lockstep was started when one unruly Freshie had the bad taste to display so rare a thing as temper on such an occasion. When subdued, however, he listened to the proposal of a "hygienic antiseptic trip to Lake Frisco," became tractable and lined up. President Gosrow, '10, headed the lockstep line, each member having a sophomore guard. Gosy had a beautiful horse shoe dangling from his neck, and brandished a paint brush in one hand and carried a paint can in the other. The parade headed for anywhere, and started east on 12th to Pine, down Pine, winding in the footsteps of Gosy who was directed by McElroy, and painted out every annoying (to the Sophs) poster. Music was furnished by the paraders who sang

school songs and were occasionally allowed to give the '10 yell. Upon reaching the Government (?) building, marching to the tune of Mining Engineer, they circled and went north singing, "we're here, etc." to the corner of 9th and Pine, where the big hay scale stands (this was thought to be a good location to turn the Freshmen loose), the Freshmen were "uncoupled" and McElroy mounted the scales and delivered himself as follows:

"Freshmen and fellow class men:—I think we are justified in saying that we have had a good time this morning. I wish to compliment the Freshmen on being true and good Freshmen. You may be a bit disordered but you are still in the ring. The Sophomores, on account of their small number, always need help. You will be Sophs next year and will need help. As Freshmen you have undoubtedly shown the right spirit, a compliment which the upper classmen appreciate. Now gentlemen, I want to impress upon you the fact that we have taken a half holiday this morning without permission, which is something unusual at this school, in fact, something which has never occurred before. Conduct yourselves like gentlemen that you are. Everybody be at Lab. work this afternoon promptly as usual; stay away from saloons, or you'll queer yourselves for next year in maintaining college spirit. To-day is the first time since I have been here that I have seen a manifestation of real college spirit.

"Now in order that you may have a fair opportunity to show up your class, I suggest a paint fight to be strictly between Freshmen and Sophomores. As you know, you outnumber the Sophs, but they are able to put up a good scrap owing to their experience last year.

"And further, you, of course know that you may wear your corduroys anywhere except on the Campus. It is for you to enforce this next year. Keep your corduroys, for they will fit then as well as now. It is unusual for the upper classmen to take a hand in such affairs, but it was advisable in this case and I think no one resents it. There will be nothing more to-day. In behalf of the Seniors, I thank you."

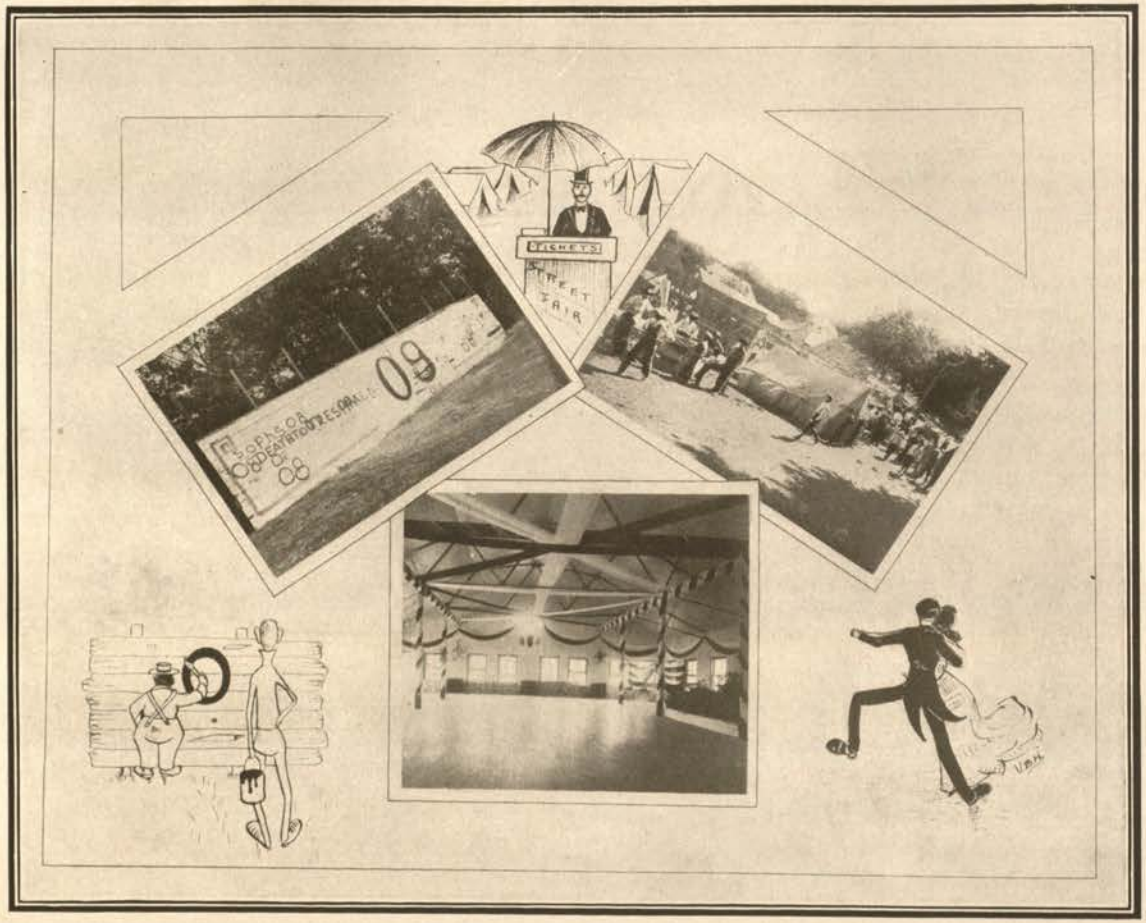
Following McElroy's speech cries for Gosrow were heard and he was lifted to the scale. He complimented the Upper Classmen and called for three cheers in their honor, and these came with force. He requested all Freshmen to be on hand at the paint fight to make it lively for the Sophs. Gosrow left the platform amid cheers and was followed by President Don of the Sophomores, who expressed himself as delighted with the showing of the Freshies and approved the paint fight. He called on his classmen to come out and show the Freshmen how it was done.

Wood, of the Juniors, was called on to do the oratorical honors for the class and declared himself pleased with the college spirit manifested by Freshmen and Upper Classmen and thought it suggested a good time next year.

Then well-known students were called to the platform and asked to exercise their oratorical powers in a manner befitting the occasion.

"Windy" Holm, the ubiquitous Junior, was raised to the platform and remarked that he felt like the young lady who received a proposal of marriage and who declared that it was "such a suddenness." He declared himself perfectly willing to be a spectator at the paint fight and hoped the Freshies would "rub it in" to the Sophs.

Other students were called for and responded in the same tenor, all filled with enthusiasm, some almost to the bursting point. Spofford, however, sprinted for tall timber and refused to talk for the once. "Chicken" Humphrey, Thornberry, the Gold Dust Twins, Seltzer and Hurwitz, "Count" Wander, "Mose" Wolf and "Father" Moore all had their little "spiel" and all being satisfied, the crowd disbanded and quiet reigned as on a Sabbath morning.



WORTH $5.00 TO THE MAN WHO KNOWS.

COMMENCEMENT

For over thirty years the Missouri School of Mines has had her graduating exercises, but it remained for '07 to make memorable the occasion of the Thirty-Fifth Annual Commencement. Nor was this happy event made the great success it was without untiring effort and careful attention on the part of those whose duty it was to see that the plans of '07 were executed. But when the great ball-room received the final touches of decoration and the lights were turned on, the effect was encouraging. As the guests came flocking in on the night of June 8th, it seemed the universal judgment that the decorations and arrangements for entertainment eclipsed those of all former affairs.

And when the gay throng had gathered, the superb music struck up and our weariness bid us adieu. Where was gray care? Where were musty dry-as-dust volumes, grinding, cramming? Away slaving days. The balmy air of the night filtering through the young leaves of the oaks on the campus came in through the open windows. The brilliant lights reflected from the blended colors of the decorations. Rolla's fairest were there and many visitors from far and near were among the guests. Nothing was wanting to make the night one of pure delight to those who find pleasure in Terpsichore's graceful art. Who has forgotten the sweet strains of music, and the long, glistening floor? The streamers of crimson and white, '07's colors; the flowing punch bowl at the one end of the hall with the entrance underneath '06's colors, black and gold, in the artistic design of a flag; at the other end of the hall was the monogram of M. S. M.

Toward midnight came the dainty supper, for the boys of '07 had left nothing undone for the pleasure of their guests. Nearly all returned to the ball-room and gave themselves over to the delights of the evening. Now is the hour of our happy dream-life. Let us live the life of pleasure for a brief space. To-morrow brings partings which we wish not to hasten. So the dance lasts till far into the small hours and only the thought of another day and its duty, its partings, the new life, or the return to the old which are forced upon us, close the Commencement Ball.

The next day, some of the lovers of the dance made arrangements to have the orchestra furnish music for an afternoon affair, and the echoes of the night before came sweetly to the ears of a few straggling workers who lingered 'round the Campus to finish some tardy task.

So '07 was happy, that it had been the means of providing her guests with an evening's enjoyment. Long, long will it be remembered by hosts and guests.

Monday morning, June 11th, dawned bright and clear and toward nine o'clock, the guests of the College begun to arrive for the Commencement exercises. There were stately matrons, gray-haired men who had witnessed many similar affairs, the young people, all Rolla, her visitors and the students who remained to see the boys of '06 granted their diplomas, filled the hall, now quiet and dignified, though still in her resplendent raiment.

President Jesse, who came down from Columbia, Doctor Ladd, our Director, the members of the Faculty and others occupied the rostrum and all present looked and felt the interest always taken in M. S. M.'s Commencement exercises. The speaker of the day had failed to appear and Dr. Jesse made a short address after which the members of '06 received their diplomas and went their way rejoicing.

SONGS AND YELLS

E. M.,—CIVIL,—CHEM.
RAH! RAH!
M. S. M.

U! RAH! RAH! M. S. M.
U! RAH! RAH! M. S. M.
U! RAH! RAH! M. S. M.
(Scream.)

Ki! Yi! Muckerim!
Rah! Rah! M. S. M.
(Repeat three times.)

Rack-e Chick-a boom!
Rack-e Chick-a boom!
Rack-e Chick-a
Rack-e Chick-a
Boom! Boom! Boom!
Rip! Re! Ri!
Rip! Re! Rah!
School of Mines and Metallurgy!
Rah! Rah! Rah!

Pick and shovel!
Diamond drill!
Who'll win?
The Miners will!

To be Sung to the Tune of
"You Are a Grand Old Flag."

You are a grand old school,
Under Missouri's rule,
Though you're open to all from afar.
You shine out bright,
Through the dark stormy night,
You're the picture of some glad bright star.
Oh, glorious school, you are known near
and wide,
You're the gem of Missouri's gems;
Should all remembrance be forgot,
Keep your eyes on old M. S. M.

COLLEGE SONGS

(Song of a Gambolier).

I wish I had a barrel of rum and sugar
300 pounds,
The College bell to mix it in, the clapper
to stir it round.
Like every honest fellow I take my whiskey
clear,
I'm a rambling wreck from Rolla Tech.
A Mining Engineer.

Chorus.

A Mining, Mining, Mining, Mining, Min-
ing Engineer,
A Mining, Mining, Mining, Mining, Min-
ing Engineer,
Like every honest fellow I take my whiskey
clear,
I'm a rambling wreck from Rolla Tech.
A Mining Engineer.

(Any Old Tune.)

Mary had a William goat,
Wm. goat, Wm. goat,
Mary had a Wm. goat,
Who'd butt for M. S. M.
It never missed a football game,
Football game, football game,
It never missed a football game,
The goat was very wise;
At a football game it would butt in,
Would butt in, would butt in,
At a football game it would butt in,
To see the Miners win.

Chorus.

Hurrah! for Mary,
Hurrah! for the lamb,
Hurrah! for the Miners
Who never give a — (no pause)
Hurrah! Hurrah!
Sis, boom, bah,
School of Mines and Metallurgy,
Rah! Rah! Rah!

(Little Boy in Blue.)

Is it strange how the lamb loved Mary?
And clung close to her side?
And turned into a billy?
And how the two friends died?
But better this old story
Is the one you'll hear them tell,
That a crowd of Rolla Miners
Is a little bunch of ——
Play low! Play fast!
Rip 'em up! Rolla!

COLORS, ORANGE AND WHITE.

The Fresh Miner from Missouri

"Howdy!"

"Did you say you was a freshman?"

"Well, my name is Johnny Green, Jr., and my home is in Greenville Green County, Missouri. My old man's name is Johnny, too, so they call me little Johnny down at home. My Pa runs the store and postoffice down home. My cousin Johnny, Wese helps Pa in the store; but he's comin' up here next year, that is if I can recommend the school to him, and I hope I can.

"I tell you my cousin is going to make some of these professors around here look pale when he gets here. Talkin' about a mathematician, why, my cousin he's a plum sight on mathematics. He can solve anything in Ray's Third Part Arithmetic slicker an grease, and that's sayin' a goodeel. He's goin' to make some of these here little two by four athletes around here look pale, too. Why, I've seen him pack four bushels of wheat upstairs and never have anybody to grunt for him, nor ask anybody to separate himself from fifty cents to holler for him neither.

"Have you seed any purty girls around here yet? Well, I shore ain't seed much to speak on. Now I've got a girl down home, and she's shore purty. Pa says she's purty as a speckled pup under a painted wagon, but I don't speak of her like that, for I don't believe in using slang when you are talking about the girls.

"My cousin, he's got one, and he sticks to her like a sick kitten to a hot Jam rock; but I just sorter let mine do part of the sparking, for you see Girls are always running after somethin' they ain't right shore of gettin'.

"Now, about this here hazin' business that I've heard so much about. When I left home my Pa told me to stand right up and shoot the first man that come foolin' around my place after the time a gentleman should be asleep, and by tater I'm shore goin' to do it. Pa told me that every free-born American citizen had a right to protect hisself, and I'm shore goin' to stand up for my rights. I've heard some say that they won't let us wear corduroy britches on the campus, nur smoke a pipe. Well, now, fur as the corduroy's concerned, I don't care, but when they go to settin' down on Johnny's smoking old long green, there's goin' to be somebody get all the buttermilk slapped out on him. Why, my Pa's hired hand, Bill, raised the finest patch of terbacker last year you ever seen, so it won't cost me a cent the whole year, 'ceptin' for the cob pipes I burn up, and Pa can get them at wholesale, cause he's in the storekeeping business. So you see they won't cost much.

"Say, how about these here fees a fellow has to pay at this here school? Before I left home my Pa told me, sez he, "Son, that's a State institooshun you're goin' to, and it won't cost you one cent 'ceptin' for your board, and I do wish the legislature had made some kind of a appropriation for the board just before you went, but I guess you will have to pay for that. Now here's twenty-five dollars for to pay your carfare and board for the first month, and if you need two or three more for to buy any books with, why, just you write back to me, and I'll send it soon as I can collect that store bill that Peter Sloupoke owes me.' Now, won't Pa kick like a bay steer when I write and tell him about the fees I have to pay?

"I hear some of the boys around here calls themselves boozefighters and so do some of the preachers, and I ain't goin' to 'sociate with these cattle. Pa says if you play with a pot you're nearly shore to get black, so I'm goin' to keep away from that bunch. I should think it would cost a feller considerable to drink much around here. Now, down home where you can take a jug out on the range to milk your cow, and come back and the milk has turned to whiskey, why, this thing of drinking ain't so costly, but it hain't a good habit nohow, and I ain't goin' to pester with it.

"Say, how long do you think it's goin' to take you to go through this here institooshun? Pa says this here four year business is all foolishness, he says its keeping the smart boys back so the blockheads can get through at the same time, sez he thinks I can make it through in about two years, for he sez the Greens inherited their brains from old General Green the history tells about.

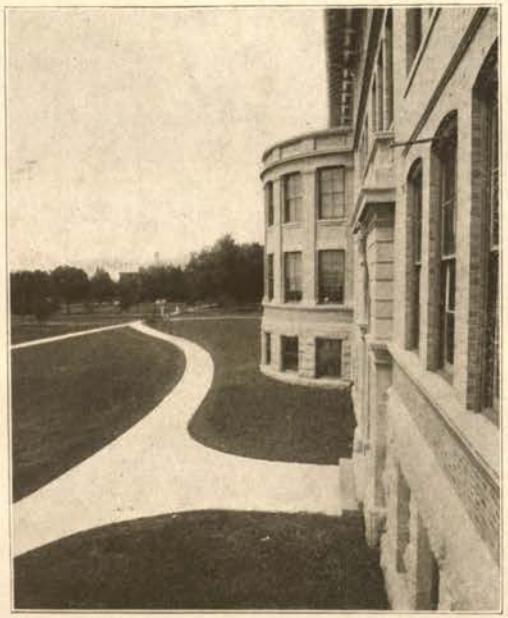
"Well, I must get up to the room and latch the doors for fear some of them sofmores might try to haze me, then I'd have to kill one of them, and I shore don't want to hurt nobody."

CELEBRITIES

In looking over the list of students for 1907 we are impressed with the Great (?) Men on the roll. For instance, just glance at the following list:—

JOHN PAYNE Sebree.
ANDREW JACKSON Seltzer.
ROSCOE CONKLING Ham.
VAN BUREN Hinsch.
ROBERT LEE Mook.
BENJAMIN HARRISON Dosenbach.
OLIVER WENDELL HOLMES.
JOHN THE BAPTIST Pfeiffer.
DANIEL WEBSTER Blaylock.
VICTOR HUGO Gottschalk.
HORACE MANN.

ADIOS



Sooner or later we shall in fancy pay a visit to the scenes we are about to leave, perhaps forever. And in spite of the fact that we tasted the bitter dregs of a few failures, faced awe-inspiring finals and boned ourselves weary, we shall cherish tender sentiments for the battleground whereon we won the stripes that shall be the "open sesame" to the door of a successful future.

Faces familiar in the lecture room and laboratory will pass in review and we shall live again in fancy the life we are now leaving behind. There are no other days in our lives just like the ones we are about to conclude.

And, as the call of other seasons falls upon our wearied senses, we shall not hear, but ask to dream a little longer of what has been—that which is now. We shall, in fancy, hear the old bell call, and remember the rising fear of meeting the instructor with the unlearned lesson.

In the golden hours now before us, we shall smile as with much wisdom at our reflections, for the future is but a higher power of the past. Now the future looms grim, mysterious and unresponsive; but when that is conquered, and it will be, this threadbare present will become a happy and wistful memory filled with an interest that you can not dream that it possesses now.

And as the familiar faces, silent buildings, the campus and the shady streets and wooded hills are left behind, and we bid the Ozarks farewell, a memory of them all will remain with us that we shall cherish throughout all the experience yet before us.

METAL

A nice bunch of Seniors with plenty of gab,
Got nervous and restless and made a great stab.
They had no Professor to talk silver and gold
So they chewed a big rag and got very bold.

The hours intended for zinc and lead
Were given to mining, which jumped in ahead.
Dry C. & S. might do in its place—
Trot out silver and start a race.

They wanted metals and wanted them bad,
Now where is our teacher, Dear Dr. Ladd?
This weary old Mining is truly punk;
Bring us a teacher without a flunk.

We mean business, the leader said,
And Copper's the stuff, you bet your head.
We finish this year—sounds real funny—
Don't have us wait for time is money.

The Prof. of Physics, he hies him East;
Trip never hurt him, not in the least.
His efforts brought fruit, doubt if you can;
A practical teacher, real metal man.

We sharpened our pencils, pages we wrote,
And tried to show wisdom—resembling a goat.
Our teacher was pleasant, and we took all he said—
But for the finish, had it entered his head?

And we thought it easy, his gentle "Quiz"
But his lectures were beauties,—he knew his biz.
Then he caught us napping, and rubbed it in,
And watched us wriggle, with childish grin.

At last we tumbled, 'twas up to us;
He'd given us metals without much fuss,
And we had to answer when he called the roll,
For in crossing a bridge you pay the toll.

Then he got him down and set the day;
He'd give us a "Quiz" and see who'd stay.
And the way we worked to know our lines
Would equal slavery in Russia's mines.

He laid it on lightly to give us a start,
Then got down to business and opened his heart.
Said good men were needed to run a real plant;
Here are the conditions, don't tell me you can't.

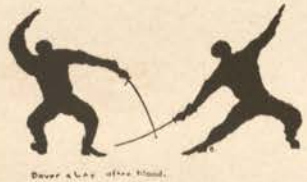
And we opened our eyes and winked away tears;
Here was our metal man, wanted for years.
So we swallowed our sorrow and jumped right in
To get the most metal from the least in the bin.

If in the future we fail "to make good"
Say not 'tis the joiner, but say 'tis the wood.
We hold up our hands and swear by him still,
Mr. Packard, our mentor, always has our good will,



THE SENIOR SMOKER





Having invited—in the kindness of their hearts and in the satisfaction of their full purses incident to the first part of the year—everybody and the Freshmen, the class of '07 received all who came and urged them to do as they pleased.

Battery "A" football men, who had been defeated in the afternoon by our team, came in a bunch and announced their appreciation of the courtesy in a speech by their captain.

The class of '07 served Missouri meerschaums, tobacco and matches.

M. Sedivy and Jack Pfeifer, with McElroy as referee, stepped into the ring for a two round bout. Their boxing was scientific and fast. Pfeifer got in some very neatly delivered licks, but continually retreated under Sedivy's rushes.

But that was only boxing. The next feature was a bout by Langsdale and Sebree. Talk about fast work—Science lost out in the space of the scrimmage, and the laughter that shook the house drove her away. In the second round Sebree developed a new system of guarding—now known as the milling system, from the likeness it bore to the operation of two coffee mills driven by one man. They also exhibited the brand new skipping defense. When Sebree's attack got to be so fast that it tired Langsdale's eyes he began to whirl his own arms rapidly at the same time skipping backward in a circle. Sebree varied this by introducing a rectangular hyperbole into his defense. The number of licks per minute in this second round has been figured as 147 per second.

Bromo Selzer (25c size) and Bowles mounted the spar for a pillow fight. This is the record. 1st round, both down; 2nd round, Bromo down; 3rd round Bowles down; 4th round, Bowles down; 5th, both down; 6th, Bowles down; 7th, Bromo down. In our opinion Selzer used more science and Bowles used more licks. And never shall we forget the lovelight that shown in Bowles' eyes, for he looked at Selzer as though he did not wish him any harm, but merely desired to bring his life to a good natured end within three seconds. The bout was about a tie, but we must remark that Bowles hit the mat the harder.

The charm of the evening had penetrated to the very hearts of us, the low hanging clouds had saturated our clothes and we felt wholly at home. Some fellows in the space near Peter Jimmy sliced out a piece of the air, and retiring to the laboratory to examine it, they found some very large nicotine dream dragons whose ages they reported as 340,400 hours. These monsters could then just about carry the professor back to his own college days. Do you suppose she was a fair haired girl, or a velvet skinned maiden with wicked black eyes?

But even Prof. Wilkins knocked holes in the smoke in front of him when Hurwitz and Selzer (10c size) mounted the bar. It has always been difficult when you met these freshmen together to tell which was which, so they were dubbed "The Gold Dust Twins." They were quite evenly matched, and naturally—being twins. But it was noted that Selzer invariably held on to the bar when they went over, and this trait undoubtedly is the reason for his family's wealth.

By this time the laughter had fair driven the smoke to the ceiling. Everybody cheered Cocky Wise when he defeated the Count by a score of seven to one. Indeed he did pummel the poor Count.

The company was beginning to wish for some sport a little more dignified when in rushed the duellists Boyer and Lay, their stern visages hidden by wire masks and their deadly swords carefully fitted with rubber buttons. It took the breath away to watch them.

Wrestling by Chew and Langsdale was watched intently. 1st, neither down. 2nd, Langsdale down. 3rd, Chew threw Langsdale to his belly, but could not turn him.

Members of the class of '07 began to appear with pies. But they were only for the contest. Joe Bowles calmly enjoyed his pies. Ham tried hard but he could not chew fast enough. Harrison chewed pretty well but he could not swallow quickly. Wolf had a hook and pump method requiring neither chewing nor swallowing, and he ate his pie in the record time of two minutes and thirty-four seconds.

Lunch? You should have been there. Why, they had enough to go around twice.

Then we had music by George Vogt and later by several Battery "A" men.

CIGARS! Tell me about the class of '07! What's the matter with the Seniors?

Remembrances of the Freshman Lab. of M. S. M.



One of the subjects with which a Freshman has to deal on entering M. S. M. is the course in Freshman Lab., also general chemistry lectures. He enters with a hazy notion of some air castles that are about to be realized and imagines that he has reached or almost reached the top rung of the ladder of fame—beginning to study chemistry. He remembers or rather has a faint remembrance of having studied chemistry (of the high school type).

He learns from the bulletin board on what day he is expected to come to laboratory practice. He comes and is assigned a desk and is told to check up the apparatus that has been given him with which to perform his wonders—perhaps to discover the Elixir of Life (see the abandoned course in Historical Chem.). He sees all kinds of little bent glass tubes, boxes, weights, scales, "rubber corks," etc. The instructor in charge, (one of the $25.00 kind), walks around in the laboratory looking as if he was a regular "Watts Dictionary of Chemistry," to whom the freshies run and ask all kinds of questions, as "Professor what's this?" "Teacher may I go out?" etc. One of these questions in particular was particularly ludicrous. It was this, the freshman was checking up his supplies and brought a piece of rubber tubing to the Prof. and asked if this was his pneumatic trough. To which the teacher replied, "yes."

The Freshman are very eager to learn and soon become regular sages in chemistry. Here is one question that no doubt every freshman can answer after he has been in the lab. for a short time, namely, What allotropic form of the element carbon is used in the freshman laboratory a great deal? Ans. GRAPHITE. It is estimated by the writer that quite a large per cent of the readers of this book will remember of having used this method (graphite method), in this course especially on the experiment of the Law of Multiple Proportions, in which ferrous and ferric chloride are used as a basis. The average freshman will set his pencil to work on this experiment, if he has never done so before. When the time comes for him to get his experiment checked up by the Professor and the necessary O. K. affixed to it (which is the main thought in view), the freshman seems to be in very deep thought. When questioned about the experiment he scratches his head and wants a little more time to think it over. It is easy for a freshman to appear a regular "Geo. Washington" in a time like this. If the assistant has partaken of a bountiful repast which usually makes him in a good humor, he is rather lenient with the poor freshman and is glad to check him up to get rid of him, inscribing the necessary O. K. and his flourishing signature. The freshman rejoices to think that he has one more experiment finished and is little nearer the goal. If the aforesaid "Watts Dictionary is "on his ear" and he is rather suspicious that graphite has been used, REPEAT, in large letters is written across the page of the freshman's note book. The freshman withdraws with a black hatred for the assistant, but he must keep mum for fear of being flunked entirely.

General chemistry is also very much liked by the freshman,—some even like it so well that they take it for two and in some instances as many as three years. Some are very much afraid that they will get their feet wet and attempt to ride through. In the history of M. S. M. several mysterious animals (ponies), have been captured. They have been placed in the archives for safe keeping. One in particular was taken that no doubt flourished in the prehistoric ages. It measured ten feet from end to end, not quite so wide and had a whole Newth's Chemistry printed thereon. It was estimated that on this one there were some five-hundred thousand words. WHO?—?—?—?

In cases of this kind hopes of making the exempt list and even passing are forever lost.

Such are some of the trials and troubles of a freshman before he is graduated from the freshman lab. to that of qualitative. In this he faces the difficulty of not being able to use his lead pencil method. Sophomores are hardly so apt to try this so often, but they are death on "sub books." It is said that at one time one of the assistants ought to have chained his book to him. Remember? He lost it. Who found it?

Here the freshman is left graduated from fresh. chem to that of qualitative.

THE MIDNIGHT HUNT

Argument: A noble scion of D——— (New York State) having become satiated in the knowledge of men and things, attains a like proficiency in the lore of nature and learns something of her feathered creatures.

I.

In the midst of midnight shade
Where a scene of strife once laid,
Stood a youth.
Yea verily.

II.

And his mission there was dread,
As the mission of those dead
Who had fought there.
Yea verily.

III.

He would kill the harmless snipe
With his arm of awful might
And a club.
Yea verily.

IV.

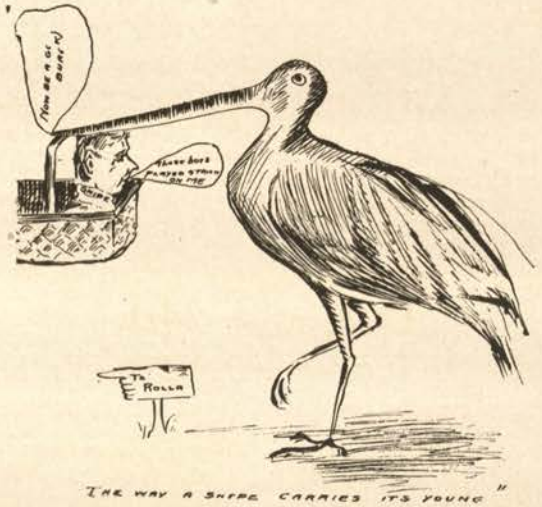
He would not be in the lag
With his bludgeon and his bag.
He meant slaughter.
Yea verily.

V.

But his followers went homeward
Still he did not play the coward.
He had courage.
Yea verily.

VI.

On the night wore wearily
Yet it brought no victory.
Then he shuddered.
Yea verily.



VII.

Then the shades of former lives
Laughed right loudly to the skies.
So he fled.
Yea verily.

VIII.

On he tore in maddening flight
Toward the still, far distant light,
Quite chagrined.
Yea verily.

IX.

On hard stone his footsteps clashed
Safe into the town at last.
But faint, from exercise.
Yea verily.

X.

Finally to the inn he came
Where his faithless men were fain
To make merry.
Yea verily.

XI.

Perforce he has at last subdued
Toward all things his attitude,
Almost meek.
Yea verily.

XII.

So vain youth with foolish tongues
Keep your breath within your lungs,
You may need it.
Yea verily, 't:s true.

September 20th

Do you see the student?

Yes, we see the student. What ails him?

He is sore.

Why is he sore?

Because they will not let him have his way.

Which way does he want?

He wants both ways—coming and going.

How is that? Is he not a wise boy?

Oh, yes, he is a very wise boy, but not quite so wise as he thinks he is.

Why will they not let him have his way?

Because they think at school that they know what is best for him to study in order that he may be a great man.

Does he want to be a great man?

Oh, yes; he thinks he is a great man now, so you see that is why he is sore, for they are not sure that he is such a great man.

November 2d

Do you see the student?

Oh, yes, we see the student; he looks happy.

He is happy.

Why is he happy?

Because he thinks he is wise and has a great plan.

What is his plan?

It is to fool his poor teacher.

Does he fool his poor teacher?

Oh, no; not by a four-flush.

Why does he wish to fool the poor teacher?

Because he thinks he is a shark and that he does not need to make his little "think tank" hurt to get his lesson.

Will he have his lesson?

No, he will not have his lesson, but he will try to run a big bluff.

Will his big bluff work?

Well, we will wait and see.

December 24th

Do you see the student?

Oh, yes; we see the student. What ails him now?

He is mad—he is very mad—he is saying some very bad things.

Why is he so red in the face and why does he fight the air?

Because he has just received his grade card.

What does he see on his grade card?

He sees on it what the teacher saw at first; that though he is a wise child, he sat in a straight game and his big bluff was called.

Incoherent Rumblings of Mr. Bughouse

Nice night
Pi K. A.
Big rumpus
Hell to pay.

Cape Girardeau
Easy game
Same old story
Came back tame.

Monday morning
Hazing bad.
Great big meet
Dr. Ladd.

Telephone office
Freshman miner
Awful fight
A big black shiner.

There is a young lady named Heller,
She always gets after a feller,
When they don't bring books back,
She gives 'em a crack
And punches their heads 'till they beller.

J. J. and Lena stood out by the gate
And talked and talked till the hour grew late.
When a voice rang out from the upper floor,
"If you don't come in, I'll lock the door."

"ARKANSAS"

I come from Arkansas
'Twas hard for me to leave my ma.
'Twant so hard to leave my pa,
"You all can't hurrah me."

I am from Arkansas
For "moler" I yell hip hurrah
The fellers try to kid me, pshaw,
"You all can't hurrah me."

I am from Arkansas
You don't know what I know, law,
But I hain't goin' to tell you, naw,
"You all can't hurrah me."

OLD PHILLIPS

1. Phillips was a miner
A miner lad was he
He mined in all the mines there were
Down in old Bisbee.

2. Phillips was a miner
A miner well I hope
He mined for nature's treasures
Down in 55 stope.

3. Old Phillips was a miner,
He rode upon the cage
You could tell he was a minor
Because he was not of age.

4. Oh, Phil was a miner
And oft times he got sore
He should have been an oarsman,
Cause he always handled ore.

ROLLA STATE BANK

CAPITAL, $40,000.00
SURPLUS, $35,000.00

JOS. CAMPBELL, President
B. L. KNAPP, Vice-President
C. M. KNAPP, Cashier
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WE SOLICIT YOUR ACCOUNT

M. S. M.

This is Faulkner, the Bookman,
He's always on hand with the books
That maketh the Miner wise like unto the owl
That pondereth sagely in nooks.
Faulkner hath Books, all the Metallurgies
Zinc, Lead, Copper, Silver and Gold,
Yea, books that expound the mysteries
And telleth the things to be told.



Now this to the Miner who would fain
Be quite as wise as he looks;
Keep ye in touch with Faulkner,
The Bookman, who keepeth the Books.

Medley

Ore Dressing, Hydraulics, Geology,
Physics, Masonry, too,
Analytics, Assaying, also Supplies
That helpeth the Miner thro;
Dynamics his books discourseth
With power, also with might,
And throweth upon electricity
A bright, yea, shining light.

Junior Geology Examination

Professor Griswold would like to have definitions for the following terms which have appeared on papers turned in to him:

Holy crystalline.

Agit.

Greese feel.

Intercluric.

Grabo.

Bowles of the earth.

The subtile influence of environment sometimes produces very strange effects. For example, what part of town immediately East of the Grant House do you suppose he had been visiting when he wrote the following?

Question: What is an isogeotherm?

Answer: Isogeotherms are the lines of heat that travel in the interior of the earth. They may change just the same as ocean current, but in these lines of heat in the interior of the earth they sometimes cause great gases to accumulate and cause the chemical change of a great many minerals in the earth but they may change according to the kind of material they get in.

Question: What influence has the sun upon the earth?

Answer: The sun is our main source of heat, and without it our world would be 300 degrees colder. Therefore the sun is partly due to the molten condition of the earth's interior as that would cause the earth's waters to cease flowing.

If Rolla is 1098 ft above the sea, how far is M. S. M. above Hades?

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ILLUSTRATED CATALOGUES ON APPLICATION

Anxious Inquirer—"Dr. Tseung, do you intend to return to China when you have completed the course in this school?"

Dr. Tseung, (With a wily Chinese grin)—"Sure, don't you see my pig-tail; you think I wear it for good looks?"

Peter Jimmie—"Ist es dunkel in diesem Zimmer?"

Watson—"Es ist hell in diesem Zimmer."

BIBLE STUDY TEXTS FOR THE HOLIDAYS

John iii, 14:—"We know that we have passed—"
Numbers xx, 19:—"Thou shalt not pass—"
Judges iii, 29:—"Suffer not a man to pass—"
II Kings vi, 9:—"Beware that thou pass not—"
Isaiah xxxv, 10:—"None shall pass—"

"A self-made man,—yes,—and worships his creator."—I. L. Wright.

"As idle as a painted ship upon a painted ocean."—Karte.

"An empty wagon makes the most noise."—Thornberry.

"And ever and anon the rosy red,
With bashful blush would dye his head."
—Hall.

"Shall I be carried to the skies
On flowery beds of E's
Or shall I strive to win the prize,
And sail through bloody C's."



A FACULTY MEETING OF MANY CENTURIES AGO

Remember, remember, the days of September,
Freshmen coming to town.
I see no reason how it can be treason
To let them go up and come down—
In a blanket.



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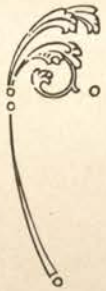
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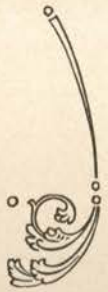
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The Slough of Despond.—Exams.

"I."—Dutch Klockmann.

Modern Hot-Air Machine.—Windy.

"How much a fool that has been sent to roam,
Excels a dunce that has been kept at home."

Butler.

"If I am so great when a boy, what will I be when a man."—Wander.

Prof. Clarke: (In Surveying)—What is the quickest way of running a curve?

Echo on the Rear Seat—By Rapid Transit.

He's registered as a man, so let it stand.—Buzzy.

He sets type with a shotgun.—Rollamo Printer.

Prof. P. J.—"When I am in a strange place I always use my sense of touch."

Windy: (In Geology)—"What is the difference between chert and chat?"

Prof. Griswold—"Chat speaks for itself; you speak for chert."

Thompson: (In Chemistry)—"What is increment, Mr. Drake?"

Drake—"It occurs around caves and marshes."

Clarke: (In Masonry)—"What is the disadvantage of the steam pile driver?"

Wander—"The rope will get tangled."

Stahl, having a football foot, sits on the back seat in Calculus, and takes off his shoe, which is kicked up to Mr. Garrett's desk, by the class.

Mr. Garrett—"Whose shoe?" (No answer.)

"The class may go to the board."

"Stahl, why don't you go to the board?"

Stahl—"I am not prepared to-day."

Mr. Garrett—"Well, get up and try; I will help you."

(Applause from the class.)

Prof. Harris—"Are women legally competent to be parties to contracts?"

W. B. Mix—"I believe they are competent to make marriage contracts."

x x x

Answers to Correspondents

E. E. Cook—Yes, it is always in good taste to wear a green necktie with a blue shirt.

E. R. Wash—There are many good brands of rouge on the market; I would hesitate to recommend any one in particular.

Prof. Dean—"What is a concatenation?"

Hynes—"That's what the Hoos-Hoos do to you when they initiate you."

"Most of the eminent men in history have been diminutive in stature."—A. G. Baker.

"My only books,
Were woman's looks,
And folly's all they've taught me."
—W. H. Jones.

"God made him, and therefore let him pass for a man."—Rodovich.

"A living duck is better than a dead fowl."—"Guntly."

"His clothes look as though they were thrown on him with a pitchfork."—Bedford.

A. G. Baker—"Prof.; what will be the nature of our examination?"

Prof. Harris—"Questions, largely."

Who in the school is a 90-lb. gum chewer?

"I care for nobody, no not I."—G. H. Boyer.

"One of the few immortal names,
That were not born to die."—"Peter Jimmie."

"His hair has rusted."—Anderson.

"I am devoted to study."—Olin.

"A mother's pride; a father's joy."—Pierpont.

"So thin that he has to pass twice in the same place to make a shadow."—Mix.

"I am Sir Oracle, and when I ope my mouth let no dog bark."—Tseung.

Why do they call Dick Wash "Red Raven?"
"He's Bromo Seltzer's assistant," you know.

Why does the student go to the fire?
Why, he goes to the fire to see the fire water after the fire.

Prof. Clark.—Mr. Boland, how does a steam drill run?
Boland.—By steam.

"On the Q. T., I'm a candidate for the Junior Class Presidency."—Stahl.

Prof. Dean.: (After Windy has missed three questions.)—"Three strikes and you're out."
Windy.—"This is no ball game."
Prof. Dean.—"You're balled out."



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QUOTATIONS

* *

"Jo-Jo."—"— in this general fashion."

Bedford.—"Wat's de use of studien."

Peeso.—"If a line is parallel to another line, it is parallel to the base of that line."

Simington.—"Gee, but dis place is tame."

Thornberry.—"Ain't that the truth?"

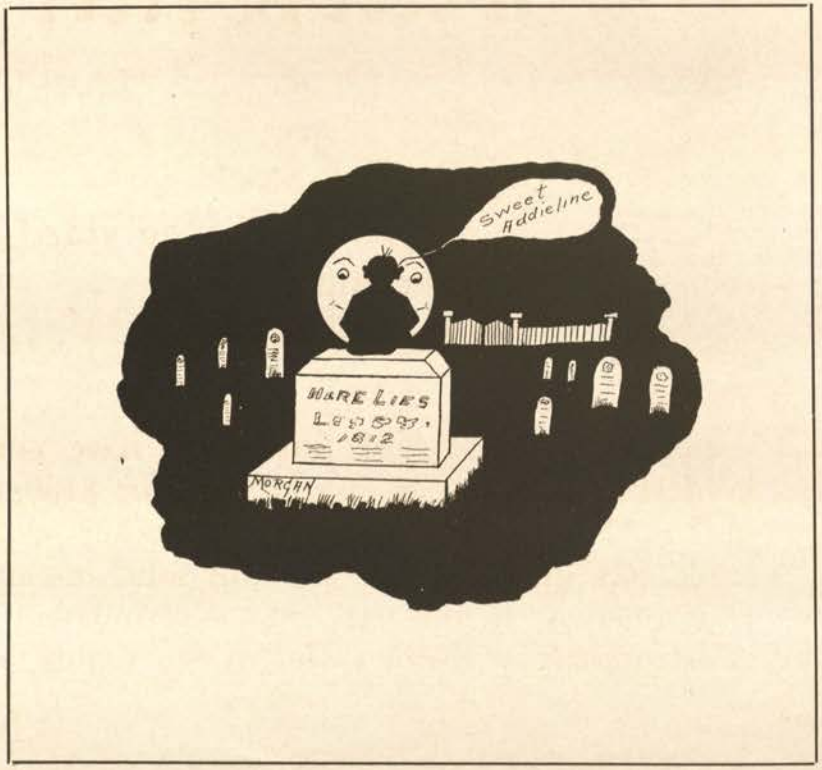
Morgan.—"Since then I heard it wasn't so."

Baker.—"I'm small, but Oh, my."

Fellows.—"Don't be an odd fellow."

Ham.—"The Ham what Am."

"I don't know where I'm going but I'm on my way."—(Gardner and Drake in a box car bound for Cape Girardeau.)



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Scenes of Clerical Life.—Pi K. A.

Adrift on the World.—Seniors.

Idle Thoughts of an Idle Fellow.—Bedford.

Tanglewood Tales.—The Chutes.

Ten Nights in a Barroom.—Spof. and Elliott.

The Letters That Never Reached Him.—Money from Home.

With Edged Tools.—Freshman Shop.

Who Goes There.—To Jimmies.

Under Pressure.—Hydrogen Generator.

The Wood Fire in No. 3.—Allen's.

Wild Animals I Have Known.—Elliott and Bedford.

Prue and I.—Judy and Wyman.

Reveries of a Bachelor.—G. H. Boyer.

The Prince of India.—Talwar.

DEDICATED TO GOSROW

Just a mere slip of a girl,—
I took her to skate, you see.
She weighed three hundred pounds;
A mere slip,—and she fell on me.

A POCKET DICTIONARY FOR THE UNLEARNED

A Case.—Off again, on again, gone again.

A Stroll.—The longest distance between two points.

Cramming.—An abomination unto the soul but a very present help before examinations.

Spooning.—Dipping up soft taffy.

A Flunk.—An error on part of the Faculty.

Cribbing.—When some other fellow's paper blows onto your desk.



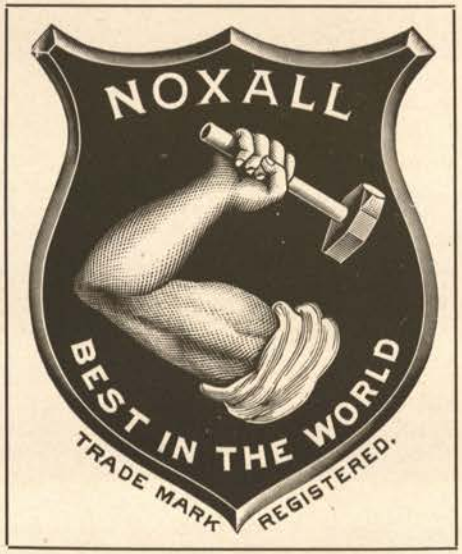
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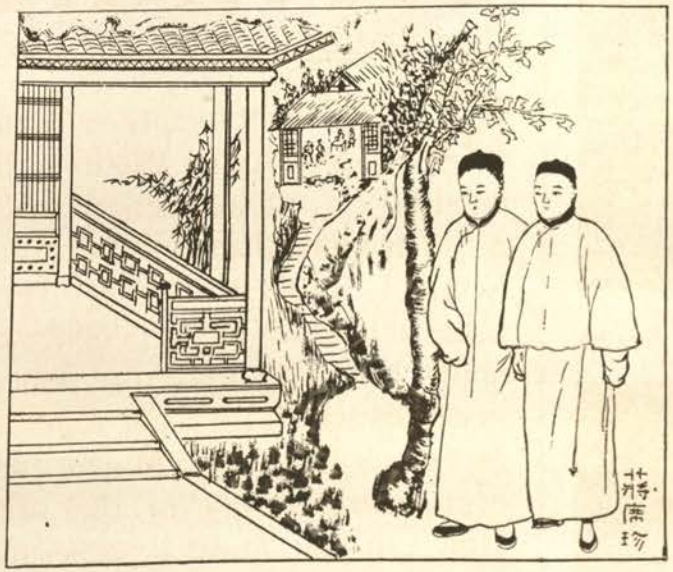
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Alike in Germany, Italy, France,
You should appear in masculine pants,
May I be so bold as to claim the next dance.

But regardless of dances, partners and such,
You never saw able men using a crutch
Or see a real honest one making a touch
The Irish certainly do beat the Dutch.



CHINESE STUDENTS OF THE PRESENT AGE.

(At the Stockroom.)—"Give me a Borax bead."—Woody.

(At the Stockroom.)—"Give me ten grams of Oxygen."—Hall.

Discovered by Wolf—Ferocious Sandstone; probably belonging to the ferruginous group.

(Iberia Girls.)—"Goodie, goodie, goodie. Judy's here."

He danced one night with a Rolla girl,
Next day he felt quit ill,
He came, you see, from the sunny South,
And he couldn't stand the chill.

IN MECHANICS

Dean—Here we have two equal and opposite forces; in fact they are holding each other up.

Simington—They must be tanked.

Dean: (In Mechanics)—"Get your figure like mine, for I have a good figure."

Dean—"This blackboard looks like it had the smallpox.

Dean: (To Boland, reading a newspaper in the back seat)—Well, Boland, what is the latest news from Syracuse.

Dean: (To Kellog)—"Wake up your friend back there." (Nye)

Dean: (In Mechanics)—"Don't follow cook-book directions; we are not studying kitchen mechanics.

Dean: (Explaining a stress problem)—"Some of you fellows will have to cast the beam out of your eye before you can see this.

Draper: (In Ore Dressing)—"The Schmidt Cylinder is generally shorter than it is long.

Dean—"We want to express X in terms of Y; it may get some of you by freight."

Dean: (Arranging class alphabetically)—"How many in the "Q?"

Windy—"Tseung is in the 'Q.'" (Cue.)

Harris: (Translating from "Immensee".)—"I clasped her fondly to my breast and pressed her ruby lips to mine—," "that's as far as I got, Professor."

Peter Jimmie—"I think that's quite far enough, Mr. Harris."

Prof. Griswold: (In Laboratory.)—"I shall not be able to give that examination—"

Students—"Hurrah! What's the matter with Professor—"

Prof. Griswold—"In the laboratory, but we will proceed to the lecture-room and have it there."

(Groans.)

Sayings of the Wise Ones

Prof. McRae—"Gentlemen, I desire to call your attention to the footnote at the top of page 137."

Prof. Bowen—"Here we have a sieve with some holes in it."

Prof. Dean—"What would be the stress on a sidewalk if a man uniformly loaded passed over it?"

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There be those in the printing business who are troubled with a slight cough when they speak of us who are in the business for "Art's Sake"—this latter always being used sarcastically. While we confess to a weakness for the "art" side of it we are thoroughly possessed of the opinion that it is also good business.

Some buyers know the advantage of getting a service. More will find it out as time passes. Eventually enough will know it to enable us to smile at the gibes of our friends and to contemplate ourselves with much satisfaction. So might it be.

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"In growing old we become more foolish."—Rohrer.

"Fresh as the month of May."—Burdick.

It is a great plague to be a handsome man."—Chew.

H. G. Smith wonders why he wears his shoes out on the outside first.

"I will never love again."—Klockmann.

"Stuck on himself and has no rival."—Wolf.

"He is not dead, but sleepeth."—Hatch.

"Houseboats on the Sticks."—Prof. Wilkins' feet.

"His brain contains ten thousand cells,
In each some active fancy dwells."
—Gottschalk.

"Haste is of the devil."—E. E. Jones.

"Too religious for even a smile."—W. I. Phillips.

"A mouth so large he can whisper in his own ear."—Dougherty.

Freshmen's "Home Sweet Home."—Shop.

Sophs never tire of it.—Calculus.

Where the Juniors shine.—Geology.

Seniors crave for it—Frame Structures.

"Having heard that the hairs of his head were numbered, he would like to apply for a few back numbers."—Dunkin.

Evidently Freshmen prefer hugging a telegraph pole to embracing a young lady.

Greenie—"Why does the M. S. M. become wiser and wiser each year?"

Prof.—"Because the Freshmen bring a little knowledge each year and the Seniors never take any away."

"I am so fresh the new-mown blades of grass
Turn pale with envy as I pass."

—Burdick.

"You cannot tell from his looks whether he was disappointed in love or only has dyspepsia."—Van Smith.

"A man who lives on his wits never finds it necessary to invest in anti-fat remedies."—Dean.

"Is Bailey taking Frame Structures?"

"No; he is only exposed to it; it is not necessarily contagious."

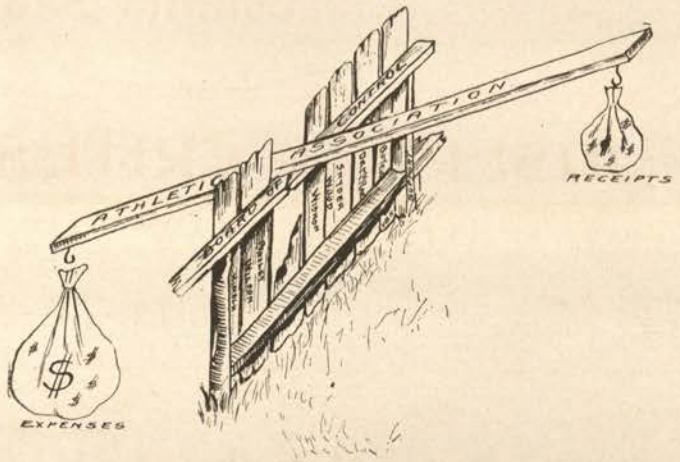
AT THE COYOTES.

Bunten—"Chase the cow down this way."

Bromo.—"Elsie, please pass the milk down there where the calf is bawling."

"I am the only one of my friends that I can rely upon."—Gardner.

"I want to be somebody's darling."—Leming.



"Your whiskers, Prof. Packard, are just a perfect love,
But all the hair that you have there is needed up above."

G. E. MITCHELL



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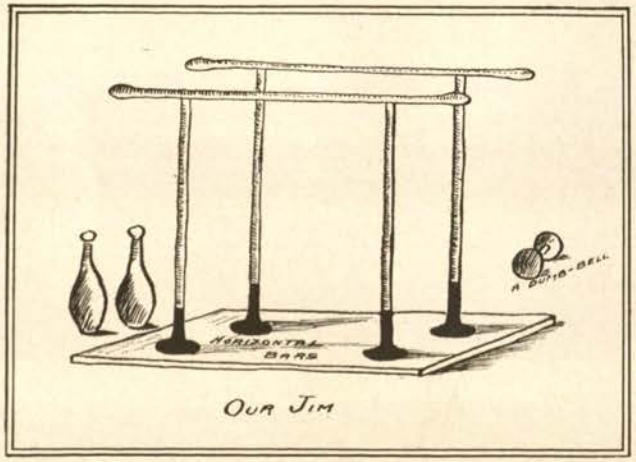
CHARLES L. WOODS, Editor

JUNIOR PHYSICS

Watt is "Ohm, Sweet Ohm?—The place where you dyne.

Is it murder to kilowatt?—No, a salt and battery.

Did you ever see an electrical field or a foot pound?



OUR JIM

HERE AND THERE IN PHYSICS

M. S. M. Phenomenon.—Windy.

Limit of audibility—Radovitch.

Tuning fork.—Tell Humphrey a joke.

Water dropper, page 329.—Zurilich in conversation.

Multiple image.—The last Freshman blowout.

Mechanical equivalent of heat.—Dean.

Angle of repose.—Notice Windy in ore dressing

Attraction and Repulsion.—K. Morgan.


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GOTTSCHALK'S SOLILOQUY

Aye; so it is my dear,
The truant cuff is e'en where I did place it
Here in the baby's drawer.
The "baby's drawer," ha!
Well, do I mind the day
When I, too, had a drawer wherein to place
My collars, cuffs, my shirts
And small belongings;
Impediments, in which then I took
A certain pride.
These were my very own—
I had a drawer for them, a dresser drawer,
And 'twas my very own.

That was, I think, less than two years agone,
Before that day—
Ah! me; how memory dwells
Upon those lean and lonely years!
I had a trunk; relic of barbarous days,
And bachelorhood.
I had a trunk, and there it was my use
To place my worldly gods,—my all in all,
Joyous habiliaments of occasions glad,
And treasured trophies, and the symbols of
Single and most depraved delights.
But—Tempora mutantur—
And now, though burdened with possessions rare,

All mine in name,
I have no place to store them.
Baby's things and Her's
Monopolize the closets, all the drawers,
The attic,—e'en the basement is not free,
And when I seek a handkerchief or cuff
I know not where to find it, nor on whose
Belongings I shall lay my desecrating hands.
I joy in what I own, forsooth, and yet,—
Still, on occasions, do I sigh to have
A cracker-box or something that is mine
Exclusively, and to my one use
Forever dedicate.

"DOS CARTAS"

Un Estudiante a su padre:—

Mi Querido Papa: Eschibio a Vd. esta el lunes para que llegando a las manos de Vd. el martes, haga Vd. el miercoles las diligencias precisas para enviarme algun dinero, el jueves, a fin de que yo lo reciba el viernes por que si no, tomo el sabado el tren, y me vere con Vd. el domingo.

Del Padre a su hijo:—

Mi Querido hijo: Tu carta del lunes la recibi el martes, y te contesto el miercoles, para que sepas el jueves, que no tendre dinero el viernes; y que si tomas l tren el sabado, te desenguanaras el domingo, de que no siendo ni domingo ni lunes, ni martes, ni miercoles, ni jueves, ni viernes, ni sabado, cualquiera otro dia estara mi bolsillo a su disposion.

HIS PROPOSAL

He loved the maid so very bad,
 That his head was in a whirl;
But he was a shy little Freshman lad
 And she a Rolla girl.

He tried to tell her of his love,
 And every time he choked;
His tongue stuck tightly up above,
 Until he nearly croaked.

At last he found an easier way,
 A fraternity took him in,
And this was all he had to say,
 "Won't you wear my fraternity pin?"

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CHOW CHOW

FOOLISH HASH FROM THE BOLAND BEANERY

Scene—Poolroom. Time, Any old time.

CHARACTERS

Kinney—Proprietor. Boland—Patron.

Bob—White, deaf, bulldog.

Kinney, (Soliloquy)—I wonder where the coach is? (Hears a noise resembling composite of runaway, railway collision, ship wreck, barroom fight.) I'll bet that's Windy.

Bob—Bow-wow-wow.

(Enter Boland through door in dead run.)

Kinney—Hello, foolish.

Boland—How are you? Is your name Arnott Kinney or not Kinney or is it? Burdick you're no relation to that fellow, are ye?

Kinney—Poor old coach, old horse, old dog, old coach horse, old coach dog.

Boland—Old pinhead, old woodenhead.

Kinney—Sit down, you worry the dog.

Boland—If it's what it ain't, don't it what it was.

Kinney—Yes, it don't.

Boland—say, Kinney, Geo. Washington's dead.

Kinney—I didn't know he was sick. Tell me, foolish, is it kistomary to cuss the bride?

Boland—Why, the h—l, yes. Is your hair red?

Kinney—No, just blood shot.

Boland—Say, Mr. Kinney is called, no he isn't. Let's get Wishon's air ship and go travelling—

(Hereupon Kinney is called to rack up the balls and scene ends with Boland "playing tricks" on the dog.)



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Technical Terms Defined

Horse Power—Frame Structures Exam.

Early Cut-off—Hall's mustache.

Forced Draft—Bowen.

Stuffing Box—Bartlett at the Club.

Outside Calipers—(Smithy's) legs.

Waste—(Bedford.)

Traveling Cranes—(Langsdale) and (Happy Ladd.)

Vacuum—(Zirulick.)

Dean—"Mechanics problem in, Mook?"
Mook—"No."
Dean—"Umph. You have quite a string of beans."

With a small-sized weapon he murdered the English language.—Radovich.

Ask Anderson about his acquaintance with "English Nobility."

"The Lord gave, and the Lord taketh away; blessed be the name of the Lord."—(Zweers.)

"Windy" (Blowing into Mechanics, and giving Simington a shove):

Simington—"W'at do yer tink dis is, a saloon?"
Windy—"Why, yes; I saw you here."

Without visible means of support.—Taggart.

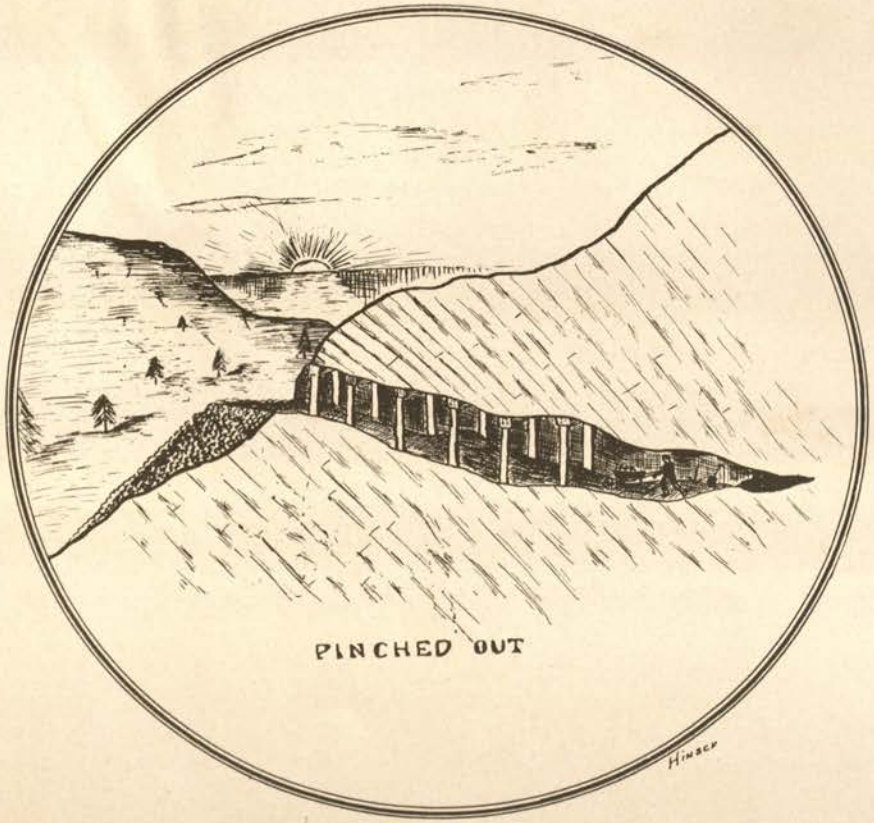
To sleep, perchance to dream.—Prof. Griswold's 8 o'clock classes.

His speech is like a tangled chain—nothing impaired, but all disordered.—Wishon.

Many are called but few get up.—Karl Morgan.

Halloween. (Day after.)—"What did you do to calculus?"

Dull Student to Prof. Dean.—"Is life worth living?"
Prof. Dean.—"It depends upon the liver."


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